The General Catalog was produced by the University of Oklahoma Office of Academic Bulletins, Judy K. Cain, Editor, assisted by Jean Ware, Manager of Administration and Operations for Admissions and Records. The Office of Academic Bulletins is a division of the Office of Admissions and Records, directed by Matt Hamilton, Registrar and Associate Vice President for Enrollment and Student Financial Services. This publication, printed by University Printing Services in April 2004, is issued by The University of Oklahoma and authorized by The University of Oklahoma Board of Regents. 2,000 administrative paper copies and 10,000 copies on CD have been prepared at a cost of $46,000 to the taxpayers of Oklahoma. This publication is also available on the Internet at http://www.ou.edu/bulletins.

Copies of the General Catalog are available for examination in Oklahoma high schools, colleges and in each office of the University. A copy of the General Catalog CD is provided to each first-time-entering student at the time of their admission. Copies may also be purchased from University area bookstores. The Office of Admissions and Records will mail copies within the United States at a cost of $15.00 for paper copy, and $10.00 for CD. Orders may be charged to a major credit card (VISA, MasterCard, Discover or American Express) by calling (405) 325-5979; or to place an order by mail, send a check or money order made payable to The University of Oklahoma to: Office of Academic Bulletins The University of Oklahoma 1000 Asp Avenue, Room 232 Norman, OK 73019-4076.

Prospective graduate students should request information on specific programs from the Graduate College, 731 Elm Avenue, Room 100, Norman, OK 73019, (405) 325-3811; undergraduate students should contact the Office of Prospective Student Services at (405) 325-2151 or 1-800-234-6868, or e-mail: ou-pss@ou.edu.

The General Catalog is published for informational purposes and should not be construed as the basis of a contract between a student and the University of Oklahoma. Every effort is made to provide information that is accurate at the time the Catalog is prepared. However, information concerning regulations, policies, fees, curricula, courses and other matters contained in the Catalog is subject to change at any time during the period for which the Catalog is in effect. The University of Oklahoma reserves the right at all times to discontinue, modify, or otherwise change its degree programs when it determines it is in the best interest of the University to do so.

Current information regarding fees, important dates and the availability of courses can be found in the Class Schedule, which is available before pre-enrollment begins for each term.

Campus visits are available through the Office of Prospective Student Services. To arrange a campus tour, call Prospective Student Services at (405) 325-2151 or toll-free 1-800-234-6868.

The Catalog Cover Design

The cover design of this catalog features architectural renderings of some of the current academic construction projects on the Norman campus. The front cover features Gaylord Hall, new home for the Gaylord College of Journalism and Mass Communication, while the back cover features Michael F. Price Hall, a 55,000 square-foot expansion for the Price College of Business. The insets on the back cover feature (top to bottom) Price Hall, Mary and Howard Lester Wing on the west side of the Fred Jones Jr. Museum of Art, Nielsen Hall Phase II, and the Stephenson Research and Technology Center. Photos by Robert Taylor and Sanford Mauldin. Cover art designed by Edward Buntario, graphic artist, in collaboration with Judy K. Cain.

The cover design is generously provided by Real Media FX, a Digital Media Group in Tulsa, OK.

The mission of the University of Oklahoma is to provide the best possible educational experience for our students through excellence in teaching, research and creative activity, and service to the state and society.
Welcome to the University of Oklahoma!

Our university offers very strong educational opportunities with more than 150 areas of study from which you can select a major. Here you will find gifted teachers, learned scholars and dedicated staff members all committed to your success.

In addition, the university community offers many opportunities outside the classroom for your continued growth and development. Our students are actively involved in a variety of extracurricular activities and organizations. Through these activities they develop personal, social, intellectual, and occupational skills as well as recreational, wellness and ethical values essential for success. The vast range of opportunities at OU include campus governing bodies, sororities and fraternities, athletic teams, music groups, theater and the arts, and the campus media. We also offer many opportunities for study abroad through exchange agreements with more than 122 universities in over 48 countries worldwide and a chance to interact with more than 1,800 outstanding international students on our own campus.

Through campus employment, cooperative opportunities and internships in business and industry, we introduce our students to the world of the competitive workforce. We offer a wide array of services for career planning, and we work to attract employers from across the nation to meet and recruit future employees from OU.

Whether you are a new or prospective student, a parent, or just interested in knowing more about OU, I invite you to explore this catalog which contains extensive information about our numerous academic and student-supported programs. If possible, I invite you to visit the campus to experience OU firsthand and to share our pride in being part of the tradition and future of the University of Oklahoma.

Sincerely,

David L. Boren
President of The University of Oklahoma
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The University of Oklahoma 2003-2006 General Catalog

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Located halfway between the Atlantic and Pacific coasts at the boundary between the eastern woodlands and the vast western prairie, the university is a gathering place for students and scholars from across the nation and around the globe. Students are attracted primarily by the high quality of the faculty and academic programs. The relatively low costs of attending the university add to OU’s international appeal. Scholars are attracted by the outstanding research facilities and unique resources of the university, but they also appreciate the mild Oklahoma climate, the varied cultural environment and the friendly, informal atmosphere of the university community.

Created by the Oklahoma Territorial Legislature in 1890, the University of Oklahoma is a doctoral degree-granting research university serving the educational, cultural, economic and health care needs of the state, region and nation. The Norman campus serves as home to all of the university’s academic programs except health-related fields. OU-Tulsa, located at the Schuster Center, offers applied and professional graduate degrees from the Colleges of Allied Health, Architecture, Arts and Sciences, Continuing Education, Education, Engineering, Fine Arts, Liberal Studies, Nursing, Pharmacy and Public Health in collaboration with hospitals, community agencies, and other higher education institutions in northeastern Oklahoma. The OU Health Sciences Center, which is located in Oklahoma City, is one of only four comprehensive academic health centers in the nation with seven professional colleges. OU enrolls more than 30,000 students, has more than 2,000 full-time faculty members, and has 19 colleges offering 150 majors at the baccalaureate level, 142 majors at the master's level, 76 majors at the doctoral level, 30 majors at the first professional level, and five graduate certificates. The university's annual operating budget is more than $1 billion. The University of Oklahoma is an equal opportunity institution.

We invite you to visit the university or to contact us for further information about our wide variety of educational programs. For more information about the University of Oklahoma please see the university's Web site at http://www.ou.edu. To arrange a visit, please write or call one of the following offices or a specific college or program listed in this catalog:

University of Oklahoma Home page: http://www.ou.edu

Office of Prospective Student Services
(405) 325-2151 or 1-800-234-6868
Internet: http://www.dsa.ou.edu/depts/pss/index.html
e-mail: ou-pss@ou.edu

Office of Admissions
(405) 325-2251 Internet: http://www.ou.edu/admrec/
e-mail: admrec@ouwww.ucs.ou.edu

College of Continuing Education
(405) 325-4414 Internet: http://tel.occe.ou.edu/

This publication also will be available on the Internet in two formats, Adobe Acrobat and HTML. Please go to the OU home page and follow the links to the general catalog from the Admissions section.
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How to Use This Catalog

This is the University of Oklahoma General Catalog for academic years 2003-2006. It describes degree programs available at OU and contains official descriptions of courses OU offers at the undergraduate and graduate levels on the Norman campus. This catalog also is available on the World Wide Web and may be found by following links on the University's homepage at http://www.ou.edu.

Many courses listed in the catalog are not offered every semester. To find out whether a course is offered in a particular semester, consult a copy of the University of Oklahoma Class Schedule, which is available from University area bookstores or online at enroll.ou.edu.

Many academic units make changes in their degree requirements and courses between printings of the General Catalog. Check with the academic unit or college office to determine if changes have been made, or you may view undergraduate degree requirement on the Internet at http://www.ou.edu/bulletins/degree-sheets/degindx.htm; course descriptions may also be found at http://www.ou.edu/bulletins/courses/courses.htm.

Explanation of Sections

GENERAL INFORMATION

The first chapter of the catalog contains general information about the University. The chapter summarizes the mission and organization of the University of Oklahoma and describes the academic programs, facilities and resources available at the university.

ADMISSION, ENROLLMENT AND GRADUATION

This chapter describes application procedures and outlines the steps required from admission to graduation. This chapter also explains OU's academic standards and policies for the release of academic records.

COSTS AND FINANCIAL AID

This chapter provides estimates of the cost of attending OU. It also describes the scholarships and financial aid programs available to OU students and explains how to apply for them. Because tuition and fees may vary from semester to semester, check the current class schedule for the most recent information.

STUDENT LIFE

One of the keys to academic success is becoming involved in the life of the university community. This chapter describes the array of services, programs and activities available to students that affect life outside the classroom. Included is information on housing, support and recreational services, student organizations and publications, and nonacademic facilities.

COLLEGE CHAPTERS

There are 19 degree-granting colleges at the University of Oklahoma. Each of the degree-granting colleges on the Norman campus has its own chapter in this catalog. Information about the seven colleges at the OU Health Sciences Center is combined in a single chapter. OU programs offered in Tulsa are described in the section of this chapter titled "What OU is All About." ROTC programs are described in a separate chapter.

Admission and degree requirements for each college are explained in the college's chapter. All new undergraduate students coming directly from high school, and many undergraduate transfer students, are admitted initially to University College and should consult the University College chapter. University College offers no degrees, and its mission is to assist students in making the transition to university life. Students remain enrolled in University College until they have declared a major and have completed the requirements for admission to a degree–recommending college.

Twelve colleges at OU offer undergraduate degree programs. Once students have met the requirements to enter a degree college, their records and advising are transferred from University College to the degree college.
Transfer students who meet the requirements for admission will be admitted directly to a degree college. Graduate students are admitted directly to the Graduate College and professional students to the appropriate professional college.

You should read the chapter of the college that offers the degree program in which you plan to enroll.

COURSE LISTINGS

This section of the catalog provides a detailed description of the courses offered on the Norman campus of the University of Oklahoma. The courses are listed alphabetically by subject; within each, the courses are arranged numerically by course number. The course listings are preceded by an explanation of how to read a course description and a table of contents listing each subject in which courses are offered, the abbreviation used to designate the subject in the course number and the name of the department in which the subject is offered.

Because not every course is offered every semester, you should consult the class schedule for the list of courses available during a particular semester. The class schedule also provides information about the time and days of the week each course is offered, the room in which it is taught, and the name of the instructor.

FACULTY

This section of the catalog contains listings of the members of the faculty of the University of Oklahoma. The rank and academic credentials of each faculty member are listed after the name.

POLICIES

This section of the catalog contains information about the Student Code of Responsibility and Conduct for the Norman campus, attendance policy, final examination policies, reasonable accommodation policy, and Procedures for the Release of Information About Students.

CAMPUS MAP AND DIRECTORY

To assist you in locating the various administrative and academic offices of the University of Oklahoma, the catalog contains a map of the Norman campus and a listing of the principal offices of the university, along with their addresses and telephone numbers.

INDEX

The index at the end of the catalog provides a cross-reference for the information contained in this publication. Please refer to the index for the location of specific information.

List of Publications and Where to Get Them

Publications concerning a number of topics are available upon request or over the Internet. Contact the offices listed below for additional information.

Prospective Student Services
550 Parrington Oval, Room L-1
Norman, OK 73019-3032
(405) 325–2151
e-mail: ou-pss@ou.edu; or www.ge2.ou.edu

Information for Prospective Students—information on admission, housing, financial aid, and scholarships with applications included.


Campus Map www.visit.ou.edu/ou_campus_map.htm.

Graduate College
731 Elm Ave., Room 100
Norman, OK 73019
(405) 325–3811
http://gradweb.ou.edu

Graduate College Bulletin—general information on graduate programs, admission, including an application for admission) and Graduate College regulations. Specific program information available upon request.

Graduate College–Tulsa
4502 E. 41st St.
Tulsa, OK 74135-2512
(918) 660-3660
http://tulsagrad.ou.edu

General information on Tulsa programs.

Division of Student Affairs
Oklahoma Memorial Union, Suite 265
Norman, OK 73019-0401
(405) 325–3161
http://www.dsa.ou.edu

University of Oklahoma Student Code—deals with the responsibilities and conduct of students on the Norman campus; www.ou.edu/studentcode/OUStudentCode.pdf.

Office of Registration
1000 Asp Ave., Room 230
Norman, OK 73019-4076
(405) 325–3572

Class Schedule—www.ou.edu/admrec/registration.html.

College of Continuing Education
1700 Asp Ave.
Norman, OK 73072-6400
(405) 325–1983
http://www.outreach.ou.edu

College of Continuing Education Class Schedule—courses, seminars and workshops are posted for the fall, spring and summer semesters online at www.occe.ou.edu/occe/schedule/.

Information Line for the College of Continuing Education—(405) 325-4414.

Intersession Schedule—courses offered for December, May and August intersessions; view online at www.intersession.ou.edu.

Center for Independent and Distance Learning
1600 S. Jenkins Ave.
Norman, OK 73072-6400
(405) 325–1921
http://isd.ou.edu

Independent Study Catalog—information on correspondence courses offered in the fall, spring and summer.

University of Oklahoma High School Schedule—information on high school courses; view online at http://ouilhs.ou.edu/.

College of Law
300 Timberdoll Road, #221
Norman, OK 73019-0701
(405) 325–4726
www.law.ou.edu

College of Law Student Information Bulletin—information on admission, programs and courses with admission applications.

Health Sciences Center
Office of Admissions and Records
Basic Sciences Education Building, Room 200
P.O. Box 26901
Oklahoma City, OK 73104-5043
(405) 271–2347
http://www.ouhsc.edu/admissions/

Counselors Guidebook and Course Equivalency Tables—an annual publication designed to assist high school and college counselors in advising prospective students on the health care related programs offered at the OU Health Sciences Center.

Health Sciences Center
Office of Student Services
Robert M. Bird Health Science Library, Room 164
P.O. Box 26901
Oklahoma City, OK 73117-1213
http://www.ouhsc.edu/Students/
Glossary of Terms and Abbreviations

The following glossary is provided to explain the academic terms and abbreviations used throughout this catalog. An explanation of the abbreviations used for academic subjects is located at the beginning of the course listings, which follow the college chapters.

ACADEMIC FORGIVENESS POLICY—policy set forth by the Oklahoma State Regents for Higher Education that allows for the exclusion from the retention grade point average of hours that meet the provisions of either the repeat policy or the reprise policy.

ACADEMIC OVERLOAD—more than 19 hours in a semester or nine hours in a summer term.

ACCREDITATION—approval by a regional or professional accrediting association (e.g., The Higher Learning Commission of the North Central Association of Colleges and Schools).

ADD/DROP—the process by which a student changes his or her class schedule by adding a course, dropping a course, or both.

ADVANCED PLACEMENT—a test taken to determine a student's level of competency in sequential courses such as mathematics, foreign languages and chemistry. This type of test is designed only to place a student in an appropriate level of classroom instruction and does not award college credit.

ADVANCED STANDING EXAMINATION—an examination taken to establish college credit without enrolling in the course.

ADVISEMENT—the process of planning a program and selecting courses with assistance from an adviser.

ADVISEMENT/DEGREE AUDIT (A/DA)—computerized system that monitors a student’s progress toward completion of degree requirements. It provides information on coursework completed (both OU and transfer), coursework in progress, degree course requirements remaining, and grade point average.

APPLICATION FOR GRADUATION—the official form used in applying for a degree. This form may be obtained in the student’s college office.

AREA OF CONCENTRATION—a concentration of coursework within the major.

ATTEMPTED HOURS—total number of credit hours in which a student enrolls and receives a grade of A, B, C, D, F, P, NP, S, U, I, or N.

AUDIT—to attend a class regularly without receiving credit. Does not count toward full-time enrollment.

B.A.—Bachelor of Arts, the baccalaureate degree typically awarded in the arts and humanities.

B.S.—Bachelor of Science, the baccalaureate degree typically awarded in the sciences, engineering, and health professions.

BACCALAUREATE DEGREE—a degree awarded for the successful completion of an approved undergraduate program.

BACHELOR’S DEGREE—see BACCALAUREATE DEGREE.

CANCELLATION—an official act to terminate an enrollment before classes start for the term of enrollment.

CATALOG—an official publication listing degree programs.

CERTIFICATION PROGRAMS FOR TEACHERS—programs to qualify prospective public school teachers to meet Oklahoma state standards.

CHECKSHEET—a concise, one-page description of graduation requirements for a specific undergraduate major.

COLLEGE—an academic unit of the university, headed by a dean, offering instruction and granting degrees (or degree designations) in several areas of study.

COLLEGE OFFICE—the office of the college dean.

COMBINED CUMULATIVE GPA—grade point average based on all courses attempted, both OU and transfer.

COMBINED RETENTION GPA—grade point average based on all courses attempted, both OU and transfer courses, minus any courses repeated in accordance with the policy on repeated courses, remedial courses, and PE activity courses.

COMMENCEMENT—the ceremony at which degrees are conferred.

COMPLETE WITHDRAWAL—official withdrawal from all courses during a specific term or semester.

COMPREHENSIVE EXAMINATION—a required examination for a nonthesis master’s program that covers all fields of work offered for the degree.

CONCURRENT ENROLLMENT—simultaneous enrollment in two or more courses, programs, colleges, or campuses of the university.

CONDITIONAL ADMISSION—an admission category at the graduate level for students whose grade point average is below that required for full admission, who have coursework deficiencies in the relevant field of study, and/or who have incomplete application materials or lack the additional departmental information required for full admission. At the undergraduate level, students are admitted conditionally if they have incomplete academic credentials.

CONFERR (a degree)—award, upon successful completion of requirements.

CORREQUISITE—a requirement that one course must be taken at the same time as another course.

CORRESPONDENCE STUDY—courses taken for credit by correspondence through the Independent Study Department.

COURSE—a unit of study for a semester or term.

CREDIT BY EXAMINATION—credit earned by advanced standing examination.

CREDIT HOUR—the unit of credit for one hour of lecture per week for a semester or the equivalent.

CURRICULUM—a program of study.

DEAN—chief administrative officer of a college.

DEGREE—a title conferred upon one who has successfully completed an approved program of study.

DIPLOMA—an official document certifying a degree earned.

DISSERTATION—a written report of research completed in fulfillment of the requirements for a doctoral degree.

DOCTORAL DEGREE—a graduate degree awarded for the completion of an advanced course of study emphasizing research, typically requiring 90 hours of course and research work beyond the bachelor’s degree, the completion of an independent research project, and the completion and successful defense of a dissertation.

DROP/ADD—see ADD/DROP.

EARNED HOURS—total number of credit hours awarded for completed courses in which the student has earned a passing grade.

ELECTIVES—courses taken for credit and grade but not to meet specific major course requirements for graduation.
ENROLLMENT—the process of choosing and officially registering in a set of courses for a semester or term.

ENROLLMENT FEE—the charge paid to enroll in courses.

ENROLLMENT VERIFICATION—written confirmation of current or past enrollment for student loan institutions or other companies. Obtained through the Office of Academic Records.

FACULTY ADVISER—the faculty person assigned to assist the student in program planning and course selection.

FEE—a charge paid by students for services, e.g., course fee, student activity fee, health fee, etc.

FEE WAIVER—a reduction in the fees a student must pay to enroll in courses at the university.

FRESHMAN—undergraduate student with fewer than 30 credit hours.

FULL STANDING—an admission category at the graduate level for those students who meet the requirements for admission to a specific program.

FULL-TIME STUDENT—an undergraduate student enrolled in 12 or more hours in a semester or six or more hours in a summer term. Graduate students should see the Graduate College section of this catalog.

GENERAL EDUCATION REQUIREMENTS—common set of courses or categories of courses that are required of all undergraduate students to complete a degree.

GMAT—Graduate Management Admissions Test administered by the Educational Testing Service and used by some business colleges and schools as one item in the application packet for predicting success in graduate school.

GOOD STANDING—status accorded students who meet certain grade point average requirements.

GPA—grade point average.

GRADE POINT AVERAGE—total grade points divided by total grade point hours.

GRADE POINT HOURS—credit hours attempted for letter graded courses (A, B, C, D, F).

GRADE POINTS—four points for each credit hour of A, three for each hour of B, two for each hour of C, one for each hour of D, zero for each hour of F.

GRADUATE COURSEWORK—5000- and 6000-level courses.

GRADUATE STUDENT—a student who has already earned a baccalaureate degree and who is admitted to the Graduate College and enrolled in Graduate College-advanced courses (usually 4000-, 5000- and 6000-level) that could lead to a master’s or doctoral degree.

GRADUATION FEE—a fee charged to help pay the costs of the diploma, commencement and other graduation expenses. There is an additional fee for rental of the academic attire.

GRADUATION GPA—see RETENTION/GRADUATION GPA.

GRE—Graduate Record Examination administered by the Educational Testing Service and used by some departments as one item in the application packet for predicting success in graduate school.

INCOMPLETE—(I)—a grade that may be given to a student who has not completed all of the requirements for a course prior to the end of the semester or term.

INDEPENDENT STUDIES COURSES—one-semester, individualized programs of study approved by a faculty advisor and departmental chair.

INTERSESSION—a short session offered between regular semesters and between regular semesters and the summer term.

JUNIOR—undergraduate student with between 60 and 89 credit hours.

LETTER GRADE—a grade of A, B, C, D or F.

LOWER-DIVISION COURSEWORK—1000- and 2000-level courses.

MAJOR—the subject matter declared for in-depth study.

MAJOR FIELD—see MAJOR.

MASTER’S DEGREE—a graduate degree awarded for the completion of an advanced course of study typically requiring 30 hours of coursework beyond the bachelor’s degree.

MATRICULATE—to initially enroll at a university.

MINIMUM DEGREE REQUIREMENTS—minimum fulfillment of each specific requirement.

MINOR—a secondary field of study in addition to the major.

NEUTRAL GRADE—a grade which is not used in calculating grade point averages (AU, AW, P, NP, S, U, W, I, N, X).

OKLAHOMA STATE SYSTEM OF HIGHER EDUCATION—colleges and universities receiving state funds and governed by the Oklahoma State Regents for Higher Education (OSREH).

OU CUMULATIVE GPA—grade point average based on all courses attempted at OU.

OU RETENTION GPA—grade point average based on all courses attempted at OU minus any OU courses repeated in accordance with the policy on repeated courses, remedial courses, and PE activity courses.

OVERLOAD—see ACADEMIC OVERLOAD.

PASS/NO PASS GRADE OPTION (P/NP)—a neutral grade option selected by students for individual courses. Individual colleges may or may not accept the P/NP option.

PETITION—a formal, written request, which, if approved, will allow modification or waiver of a specific requirement.

PLACEMENT EXAMINATION—a non-credit examination taken to determine the level in which a student should enroll in a sequential series of courses. This examination does not award college credit.

PLANNED PROGRAM—an individualized degree program designed by a student in consultation with faculty and/or college advisers in lieu of a regular major.

POST-MASTER’S COURSEWORK—coursework completed after a master’s degree is conferred.

PREREQUISITE—a requirement, usually credit in another course, which must be met before a particular course can be taken.

PROBATION—an academic warning that a student is in academic difficulty, which could lead to suspension from the University. Undergraduate students may be placed on academic probation for an indefinite period of time by the university if they do not meet the requirements outlined in this catalog under the section called Scholastic Regulations and Standards.

PROBATIONARY ENROLLMENT—enrollment on probation.

PROFICIENCY EXAMINATION—see PLACEMENT EXAMINATION.

PROFICIENCY EXAMINATION—see PLACEMENT EXAMINATION.

PROVISIONAL ADMISSION—a temporary admission category which should not exceed 120 days. Note: This policy applies only to the College of Continuing Education.

REGISTRATION—consists of advisement through the college office, enrollment in courses, and payment of tuition and fees.

REPEAT POLICY—policy set forth by the Oklahoma State Regents for Higher Education that allows for the exclusion from the retention GPA of hours of repeated courses in which the original grade was a D or F up to a maximum of four courses, not to exceed 18 hours.

REPRIEVE—policy set forth by the Oklahoma State Regents for Higher Education that allows for the exclusion from the retention GPA of hours in one semester, or two consecutive semesters, that have been petitioned and approved in accordance with the guidelines of the policy.

SCHOLARSHIP—a cash award or tuition waiver awarded to a student.

SATISFACTORY (S)—passing neutral grade in courses graded on an S/U basis.

SCHOLARSHIP—A—courses selected by departments to be graded without letter grades.

SCHOLARSHIP—B—grades point average based on all courses attempted during a single semester at OU.

SCHOLARSHIP—C—a 16-week academic session.

SCHOLARSHIP—D—a 16-week academic session.

SCHOLARSHIP—E—a 16-week academic session.

SCHOLARSHIP—F—a 16-week academic session.

SCHOLARSHIP—G—a 16-week academic session.

SCHOLARSHIP—H—a 16-week academic session.

SCHOLARSHIP—I—a 16-week academic session.

SCHOLARSHIP—J—a 16-week academic session.

SCHOLARSHIP—K—a 16-week academic session.

SCHOLARSHIP—L—a 16-week academic session.

SCHOLARSHIP—M—a 16-week academic session.

SCHOLARSHIP—N—a 16-week academic session.

SCHOLARSHIP—O—a 16-week academic session.

SCHOLARSHIP—P—a 16-week academic session.

SCHOLARSHIP—Q—a 16-week academic session.

SCHOLARSHIP—R—a 16-week academic session.

SCHOLARSHIP—S—a 16-week academic session.

SCHOLARSHIP—T—a 16-week academic session.

SCHOLARSHIP—U—a 16-week academic session.

SCHOLARSHIP—V—a 16-week academic session.

SCHOLARSHIP—W—a 16-week academic session.

SCHOLARSHIP—X—a 16-week academic session.

SCHOLARSHIP—Y—a 16-week academic session.

SCHOLARSHIP—Z—a 16-week academic session.

SENIOR—a graduate degree awarded for the completion of an advanced course of study typically requiring 30 hours of coursework beyond the bachelor’s degree.

SENIOR INSTITUTION—a college or university offering baccalaureate degree programs.
What OU is All About

MISSION
The mission of the University of Oklahoma is to provide the best possible educational experience for our students through excellence in teaching, research and creative activity, and service to the state and society.

The University of Oklahoma recognizes, appreciates and actively pursues its special responsibility to help make Oklahoma a good place in which to live and work. The university is also part of a world community of scholars, and its activities make national and international contributions. Graduates of the university hold important leadership positions in the state and throughout the world. As the university meets its broad scholarly responsibilities, it targets many activities to bring maximum benefits to the state.

To encourage excellence, the university attracts, develops and retains outstanding faculty and staff; attracts capable students who will provide future leadership for the state, region and nation; provides superior library, laboratory, classroom, performance and computer facilities; and engages in ongoing planning, analysis and management for the effective use of its resources.

UNDERGRADUATE EDUCATION
The university uses the liberal-professional model of education to provide undergraduates with the knowledge and skills needed to contribute and succeed in a rapidly changing global society. Capitalizing upon the strengths of an outstanding faculty unique to a research university, OU offers undergraduate education in a wide array of majors to meet the interests of students and the needs of the state. Admission to undergraduate programs is selective. Students are expected to be above the average for college applicants in ability and to have the maturity to work diligently and effectively in a demanding academic environment.

The university endeavors to instill in its undergraduates the tradition of lifelong learning, the capacity for critical thinking, the ability to work effectively in groups, the flexibility to adapt successfully to a rapidly changing world, and an enthusiasm for creativity. These qualities enrich an individual’s life and enable one to contribute to the making of a better world.

University of Oklahoma graduates understand our rich human heritage; comprehend differing approaches used by the arts, humanities and sciences in creating that heritage; develop the ability to make ethical, critical and analytical judgments; and use spoken, written and symbolic language to communicate effectively.

GRADUATE PROGRAMS
The University of Oklahoma and the Graduate College are committed to providing the best graduate education possible for its students, an education that prepares its graduates to assume leadership positions in the fields and professions in which they are educated. Admission to the graduate programs is highly selective. Students are expected to have superior academic ability, a high level of motivation and commitment to their discipline or profession. Strong emphasis is placed on faculty strength in teaching, research and creative activity; a critical mass of faculty and students; student quality; compatibility with other established university programs; and contributions to the state and nation’s health, cultural, scientific, social and economic needs.

RESEARCH, SCHOLARSHIP AND CREATIVE ACTIVITY
National and international recognition in research, scholarship and creative activity in disciplinary and interdisciplinary areas is one of the primary goals of the University of Oklahoma. Consequently, faculty members at the University of Oklahoma are national leaders in their fields and, as such, are outstanding role models for students. They actively seek and obtain external support for research from the federal government, private foundations and corporations. Faculty at the University of Oklahoma also cooperate with faculty from other research universities and health sciences centers, and individuals in the private sector and government agencies.

What OU is All About
Research and creative activities enrich education and promote learning excellence for students by developing new knowledge for our society; allowing emerging issues, breakthroughs and new information and perspectives to be shared swiftly in the classroom; and introducing students to the process of creativity and discovery. A major research university enlivens the community and, in our modern society based on information and technology, encourages and supports economic and social development in the state.

CONTINUING EDUCATION AND SERVICE TO THE PUBLIC

The University of Oklahoma meets the growing needs of the state and nation for lifelong learning by offering continuing education programs that are built on the strengths of its academic programs. As a major public university, the University of Oklahoma has a responsibility to offer a broad range of high quality educational programs tailored to meet the needs of individuals for retraining or upgrading their skills. These programs are offered at times, in locations, and in formats to best serve the needs and schedules of adult learners.

The University is committed to offering degree programs, especially at the graduate level, for place-bound students in the state’s urban areas and to supporting the state’s economic development through education and research programs.

In the area of arts and culture, the University of Oklahoma plays a unique role as a nationally recognized center in the state and Southwest for selected artistic and cultural activities. The University’s artistic and cultural activities advance knowledge; enrich the campus and community; enhance Oklahoma’s quality of life; and contribute to the state’s development, attractiveness, and prosperity.

ACCREDITATIONS

Achievement and maintenance of high academic standards entitle the University of Oklahoma to accredited membership in the Higher Learning Commission of the North Central Association of Colleges and Schools. In addition, more than 80 graduate and undergraduate programs at the university’s Norman, Oklahoma City and Tulsa campuses have been accredited by various external agencies and professional organizations.

Nationally accredited programs on the Norman campus include:

Accounting and Business Administration—American Assembly of Collegiate Schools of Business

Architecture—National Architectural Accreditation Board

Business Administration (Finance, Business Strategy and Legal Studies, Management, and Marketing)—American Assembly of Collegiate Schools of Business

Computer Science—Computing Accreditation Commission (CAC/ABET)

Construction Science—American Council for Construction Education

Counseling Psychology—American Psychological Association

Education—National Council for Accreditation of Teacher Education

Engineering (Aerospace, Chemical, Civil, Electrical, Engineering Physics, Environmental, Industrial, Mechanical, and Petroleum)—Engineering Accreditation Commission and Accreditation Board for Engineering and Technology (EAC/ABET)

Fred Jones Jr. Museum of Art—American Association of Museums

Institute of Child Development—National Association for the Education of Young Children

Interior Design—Foundation for Interior Design Education Research

Journalism and Mass Communication—Accrediting Council on Education in Journalism and Mass Communication

Landscape Architecture—Landscape Architectural Accreditation Board

Law—American Bar Association and the Association of American Law Schools

Legal Assistant Program—American Bar Association

Library and Information Studies—American Library Association

Music—National Association of Schools of Music

Regional and City Planning—American Planning Association

Sam Noble Oklahoma Museum of Natural History—American Association of Museums and American Society of Mammalogists

Social Work—Council on Social Work Education

Nationally accredited programs at the Health Sciences Center include:

Dentistry and Dental Hygiene—American Dental Association Committee on Accreditation of Dental and Dental Auxiliary Educational Program

Education of the Deaf, Speech Pathology, and Audiology—Council on Education for the Deaf, American Speech-Language-Hearing Association, and Education Training Board

Medicine M.D. Program—Liaison Committee on Medical Education

Medicine Physician’s Associate Program—American Medical Association and Accreditation Review Committee on Education for Physician Assistants (ARC-PA)

Nuclear Medicine Technology—Joint Review Committee on Education in Nuclear Medicine Technology

Nursing—National League for Nursing

Nutritional Sciences—American Dietetic Association

Occupational Therapy—Accreditation Council for Occupational Therapy Education

Pharmacy—American Council on Pharmaceutical Education

Physical Therapy—Committee on Accreditation in Physical Therapy Education (CAPE) of the American Physical Therapy Association

Public Health—Council on Education in Public Health

Radiation Therapy Technology—Joint Review Committee on Education in Radiologic Technology

Radiography—Joint Review Committee Technology

on Education in Radiologic Technology

Speech Pathology and Audiology—American Speech-Language-Hearing Association and Professional Services Board

Ultrasound—Commission on Accreditation of Allied Health Education Programs (AMA)

Organizations

UNIVERSITY GOVERNANCE

The university is a part of the Oklahoma State System of Higher Education, which is composed of all higher education institutions supported wholly or in part by state appropriations. The Oklahoma State Regents for Higher Education is the coordinating board for the system.

The university—as part of the public educational system of the state, established by legislative action and supported by annual legislative appropriations—places emphasis on sound scholarship, good citizenship, and the duties of the individual to the community and the commonwealth.

By constitutional enactment, the governance of the University is vested in the OU Board of Regents, a board consisting of seven members appointed by the Governor with the advice and consent of the State Senate. Each member is appointed to serve for seven years, except when appointed to fill an unexpired term, and is subject to removal from office only as provided by law for the removal of officers not liable to impeachment.

The Oklahoma State Regents and the university regents approve the requirements for admission and graduation, the degrees offered, and the
fees and expenses. The boards reserve the right to change these requirements.

The president is charged with the educational and business management of the entire university. Upon recommendation of the faculties and by authority vested in him/her by the regents, the president confers all degrees.

The senior vice president and provost, Norman campus, and the senior vice president and provost, OU Health Sciences Center, are the chief administrative officers for the two campuses and provide academic and administrative leadership.

The registrar and associate vice president for Enrollment and Student Financial Services supervises admission and registration to the university and keeps the academic records of students enrolled on the Norman campus.

The vice president for student affairs and staff are the officials responsible for the nonacademic activities, programs, and services of student life.

The University College provides an advisory system for freshmen and assists students in choosing a field of study. The administrative functions are exercised by the dean of University College.

Each college, except University College, has its own faculty, consisting of the dean and the members of the faculty who teach courses in the college. The faculties set the requirements for graduation for the several schools and colleges and recommend to the president that he/she confer degrees upon those students who have completed these requirements. The dean of each college is its executive officer.

The general faculty of the University of Oklahoma Norman campus is composed of all faculty members with regular appointments. The Norman campus general faculty does not include faculty members with temporary appointments. The Norman campus Faculty Senate is the legislative group of the general faculty. It is composed of 50 members elected by the general faculty with senatorial seats apportioned according to the number of full-time faculty in the college. Faculty who are not members of a degree-recommending college are treated as a separate college for election. The senate exercises the legislative powers of the faculty and has the power to initiate any legislation requiring approval by the OU Board of Regents. Subjects for review or legislation can be brought to the attention of the Senate by written communication from any member of the university community or any officially constituted agency.

Norman Campus

The central campus and the offices of administration of the University of Oklahoma are located on some 3,500 acres in Norman, a city of 100,000 residents. Norman is located near the center of the state, 20 miles south of Oklahoma City, the state capital.

The colleges housed on the Norman campus are University College, the College of Architecture, the College of Arts and Sciences, the Michael F. Price College of Business, the College of Education, the College of Engineering, the College of Fine Arts, the College of Geosciences, the Graduate College, the Honors College, the Gaylord College of Journalism and Mass Communication, the College of Law, and the College of Liberal Studies.

The Norman campus is also headquarters for the College of Continuing Education, which directs outreach programs throughout the state and around the world.

The Norman campus consists of three sections—central campus, south campus, and north campus. Most of the academic and administrative buildings are located on the central campus, noted for its Cherokee Gothic architecture and award-winning landscaping. Also situated on the central campus are the university residence halls; the Sarkeys Energy Center; the University Libraries; the Fred Jones Jr. Museum of Art; Catlett Music Center, including Sharp Concert Hall and Pitman Recital Hall; Oklahoma Memorial Union; recreational facilities, including the Huston Huffman Physical Fitness Center and the Murray Case Sells Swim Complex; the Gaylord Family Oklahoma Memorial Stadium; and the Oklahoma Center for Continuing Education, a year-round educational center and conference site. Located one block east of the central campus is the OU Brandt Park and Duck Pond, a recreational area used throughout the year by OU students and Norman residents. David A. Burr Park is conveniently located near residence halls and other recreational facilities.

Immediately adjacent to central campus is the south campus, site of the Law Center and OU Foundation; the University apartments; Lloyd Noble Center and parking complex; the tennis complex; the Jimmie Austin University of Oklahoma Golf Course; L. Dale Mitchell Baseball Park; the Women's Softball facility; the Sam Viersen Gymnastics Center; and OU's Children's World Learning Center. The world-class Sam Noble Oklahoma Museum of Natural History opened to the public in 2000.

North campus, which is two miles north of the main campus, includes the Merrick Computer Center; Max Westheimer Airport, the University-operated airport that also serves the City of Norman; Swearingen Research Park, where government agencies and industry have established facilities; and a complex of federal, state, private, and university meteorological agencies including the National Severe Storms Laboratory, the National Weather Service Forecast Office, the Storm Prediction Center, and the NEXRAD Operational Test Facility.

Other research and study units of the university include the Biological Station on Lake Texoma; the Sutton Avian Research Center in Bartlesville; the Oklahoma Geophysical Observatory at Leonard near Tulsa; the Aquatic Biology Fisheries Research Center in Noble near Norman; and the Oklahoma Climatological Survey, the Oklahoma Biological Survey, the Oklahoma Archaeological Survey, the Charles M. Russell Center for the Study of Art of the American West, the Cooperative Institute for Mesoscale Meteorological Studies, and the Center for the Analysis and Prediction of Storms (CAPS) in Norman. In addition, the Oklahoma Geological Survey is a separate state agency located on the Norman campus and responsible to the University of Oklahoma regents.

Health Sciences Center

The University of Oklahoma Health Sciences Center is the state's major educational resource for training physicians, dentists, nurses, pharmacists, public health specialists and a wide range of allied health personnel. The campus has almost 3,000 students enrolled in its more than 70 graduate and undergraduate degree programs.

The center is composed of the College of Allied Health, College of Dentistry, College of Medicine, College of Nursing, College of Pharmacy, the College of Public Health and the Graduate College. There are approximately 1,142 faculty members and 2,910 staff employees at the OU Health Sciences Center.

Faculty and students use the clinical, laboratory and teaching facilities at the OU Medical Center, Veterans Administration Medical Center, The Children's Hospital at OU Medical Center, Presbyterian Hospital, Dean A. McGee Eye Institute, Oklahoma State Department of Health, Oklahoma Medical Research Foundation, other affiliated hospitals in Oklahoma City, the major teaching hospitals in Tulsa, the Veterans Administration Hospital in Muskogee and various affiliated hospitals and clinics in other locations in Oklahoma. The OU Health Sciences Center is the educational core of a group of 28 public and private health care institutions that make up the Oklahoma Health Center.

Also housed at the University of Oklahoma is OU Physicians, the state's largest physician group. The practice encompasses nearly every adult and child specialty. Many OU Physicians have expertise in the management of complex conditions. Such expertise is unavailable anywhere else in the state, region or sometimes even the nation. Some have pioneered surgical procedures or innovations in patient care that are world firsts. They also serve as faculty at the University of Oklahoma College of Medicine and train the region's future physicians.

Tulsa Locations

OU-Tulsa is located at the Schusterman Center, 4502 East 41st St., Tulsa, OK 74135. On this campus both the OU Health Sciences Center and the OU Norman Campus offer programs that serve approximately 1,000 students and medical residents, including graduate degrees in Allied Health, Nursing, Medicine, Doctor of Pharmacy, Public Health, Architecture, Human Relations, Library and Information Studies, Knowledge Management, Organizational
Dynamics, Public Administration, Social Work, Music Education (Kodály Certificate), Education, Telecommunications Systems and a Doctor of Philosophy in Organizational Leadership. Degree completion programs in undergraduate Nursing and a Bachelor of Liberal Studies are also offered in Tulsa.

Together OU-Tulsa and OSU-Tulsa collaborate through the OU/OSU Research and Graduate Education Center to provide students with the opportunity for exchange of academic credit between OU and OSU, a common application for admission and collaborative research services to the greater Tulsa area.

Also based in Tulsa are various programs sponsored by the OU College of Continuing Education. The most extensive initiative is the National Resource Center for Youth Services. Established in 1973, the National Resource Center is designed to provide consultation, training and technical assistance for professionals who serve adolescents at risk. Currently, a staff of 85 conducts more than a thousand events annually for more than 25,000 people in 46 states.

Prospective students or others interested in programming at the OU-Tulsa Schusterman Center should call (918) 660-3000 or visit http://tulsa.ou.edu.

OU Undergraduate Programs at Other Oklahoma Locations

The upper-division courses for the Bachelor of Liberal Studies are offered at the OU Tulsa campus. For information on admission to these programs, students should contact the College of Liberal Studies in Norman at (800) 522-0772 ext. 1061.

The upper-division courses for the Bachelor of Arts in Human Relations are offered at the OU-Tulsa campus. For information on admission to these programs, students should contact the Office of Admissions in Tulsa at (866) 637-5622.

The upper-division courses for the Bachelor of Science in Nursing for RNs and LPNs are offered at the OU-Tulsa campus. For information on this program, students should call the OU Nursing office in Tulsa at (918) 660-3950. The Bachelor of Science in Nursing is offered in Lawton on the campus of Cameron University and for RNs and LPNs in Woodward. For information on admission to these programs, students should contact the OU College of Nursing in Oklahoma City, (405) 271-2428.

College of Continuing Education

The College of Continuing Education provides academic outreach opportunities to the state, region and nation. As the administrative unit for outreach at the University of Oklahoma, continuing education programs are the means by which the university extends its resources to the people of Oklahoma and beyond. By encompassing comprehensive, multidisciplinary academic services and programs that focus on the needs of adult learners, the College of Continuing Education offers both credit and non-credit courses, seminars, workshops, conferences, correspondence study, public service activities, and travel/study programs. The diversity and quality of the services available through continuing education programs provide an exciting and challenging academic experience.

The College of Continuing Education develops and administers instructional activities that utilize the insight and expertise of the University of Oklahoma faculty in conjunction with community professionals in the areas of business, science, education, and the arts. The goal of the College of Continuing Education is to adapt, extend, and apply knowledge to meet the educational needs of individuals, organizations, and communities beyond the traditional campus environment.

In addition to the following departments and services, the College of Continuing Education is constantly developing new programs. For information regarding the most recently initiated programs please direct inquiries to: College of Continuing Education, 1700 Asp Ave., Norman, OK 73072-6400.

Tulsa Continuing Education Office

Peter Correia, Director

The University of Oklahoma has been committed to providing continuing education resources to the Tulsa area for more than 28 years. The Tulsa Continuing Education Office offers a variety of continuing education opportunities addressing youth services through workshops, seminars and conferences.

For more information regarding the Tulsa Continuing Education Office or any of the programs described below, contact: Peter Correia, Director, Tulsa Continuing Education Office, 4502 East 41st St., Tulsa, OK 74135 or call (918) 660-3700.

The National Resource Center for Youth Services

The National Resource Center for Youth Services is the nation’s most extensive resource focusing on adolescent issues. Located in the Schusterman Center, the center has developed a comprehensive national program providing training, technical assistance, conference planning, and information and referral services to public and private child welfare and youth service agencies. For more than 10 years, the NRCYS has delivered timely, culturally competent training and technical assistance, increasing the capacity of public and private agencies to effectively serve youth and their families.

The NRCYS also serves as a national leader in the sponsorship and coordination of key state, regional and national conferences addressing the needs of professionals serving youth and families. The National Resource Center sponsors its own annual summer training conference, Working with America’s Youth, attended by service providers from across the country, and convenes influential leaders in the field of independent living. The National Resource Center brought to the forefront the needs of older youth in care through sponsorship of the first and only national youth development conference. This conference, Destination Future, is attended by the nation’s foster care and homeless youth population, along with their adult workers and sponsors.

Additionally, the center acts as an information clearinghouse and broker of innovative program models for working with youth and families. The center serves as a model publishing house in the area of youth services. The National Resource Center develops curricula and materials to respond to emerging trends and national initiatives in the areas of children and youth services. Additionally, the center always is pursuing model programs and materials for development and dissemination to the field.

The NRCYS serves as the umbrella organization for a number of state and national programs designed to prepare social service providers to work effectively with youth and their families. Information may be obtained by calling (918) 660-3700.

NATIONAL RESOURCE CENTER FOR YOUTH DEVELOPMENT

The National Resource Center for Youth Development is a national program component of the NRCYS dedicated to bringing the concepts of youth development to the public child welfare system. Through this program, comprehensive on-site technical assistance and training is provided to public child welfare agencies to assist them in implementing effective, developmentally appropriate services for adolescents.

Juvenile Personnel Training Program

The Juvenile Personnel Training Program is the statewide training component of the National Resource Center for Youth Services. The JPTP serves as a training and technical assistance resource for public and private sector juvenile justice, child welfare, and delinquency prevention agencies in the state of Oklahoma.

The Oklahoma Center for Continuing Education

Today some 35,000 individuals a year choose our unique residential facility for their meetings, conferences, and other activities. What makes our residential facility unlike other conference centers? We offer a comprehensive...
learning environment with full telecommunication capabilities, a convenient central location and an informal, separate campus within a campus. Surveys indicate that OCCE is one of the most affordable conference sites in the nation. OCCE’s out-of-state participants fly into Will Rogers International Airport in Oklahoma City (20 miles away), which is served by most major and commuter airlines.

Located on the south side of the University of Oklahoma’s Norman campus, the Oklahoma Center for Continuing Education is one of 11 WK. Kellogg Foundation-funded continuing education centers in the world.

Conference participants can expect comfortable surroundings accented by a superb cuisine when they stay at OCCE. Residential facilities include the Sooner Hotel, housing up to 146 people in its double and single rooms, and the Sooner Suites, 10 duplex cottages, each with two bedrooms. The Commons Restaurant accommodates 600 people in its combination of cafeteria, banquet halls, and private dining room. Special banquets can be arranged, whether participants prefer an Oklahoma barbecue or international fare.

Because of this array of unique meeting, housing, and dining facilities, OCCE is recognized as one of the nation’s leading university-based residential conference centers.

The OU Difference

You can get a college degree at any of hundreds of colleges, but you can only get an OU degree from the University of Oklahoma. OU is preparing students to be successful contributors to the global society of the 21st century, and whatever your field of study, your life will be enriched by experiences both inside and outside the classroom.

Contributing to the OU difference are:
- An outstanding and internationally recognized faculty to serve as your teachers, mentors, role models, and guides through your college years
- 130 majors at the baccalaureate level, 142 master’s degree areas, and 76 doctoral program fields
- Professional programs in law, medicine, dentistry, the health professions, and various master’s dual degree programs
- An emphasis on sound academic advising and orientation for all students
- A focused general education program
- Funded research opportunities for students
- A nationally recognized Honors College
- The opportunity to study abroad at universities on five continents
- A culturally diverse campus community providing a supportive environment for students of all cultural backgrounds

The wide variety of academic programs, the dedicated faculty, the multicultural and international student body, the unique resources, the friendly and supportive community, and the traditions developed during 113 years of striving for academic excellence all contribute to the OU difference—a difference you will benefit from and contribute to as an OU student and alumnus.

Also contributing to the OU difference is a wealth of special programs, facilities, and resources, many of which are described in this chapter.

Programs for Academic Excellence

UNIVERSITY-WIDE GENERAL EDUCATION

In today’s global society, the most important contribution a university can make is to help prepare its students for lifetimes of change and for futures as educated and responsible citizens. OU’s university-wide general education core curriculum, which was implemented in fall 1990, meets this challenge by providing a core curriculum of required courses designed to help students think creatively, reason and communicate clearly, and respond quickly to our rapidly changing environment.

OU was the first college in the state—and among the pioneers nationally—to organize its general education requirements into a focused curriculum that emphasizes the key areas of knowledge essential in today’s society and life in the 21st century.

In designing its general education curriculum, OU looked toward two new centuries—the 21st century, in which students will need to cope with global, societal and career changes—and OU’s second century, in which it will continue to produce leaders for the state, nation and world. OU’s general education curriculum is designed to help its students succeed after graduation, regardless of their field of endeavor. Because effective communication skills are essential, writing is emphasized across the general education curriculum. Courses also help students learn to express themselves orally, use mathematical analysis, examine and solve problems, appreciate the creative arts, explore the concepts and methodologies of the natural and social sciences, and better understand their own and others’ cultural heritage. Courses are designed to foster enthusiasm, curiosity and a desire to continue learning.

General Education Requirements

A minimum of 40 credit hours of general education courses is required for graduation. The list of courses approved for general education credit is published in the class schedule. Courses must be distributed among the following areas:

I. SYMBOLIC AND ORAL COMMUNICATION (5 courses, 15-19 hours)
   - English Composition (2 courses, 6 hours).
   - Foreign Language (2 courses, 6-10 hours). This requirement can be satisfied by successfully completing two semesters of the same foreign language at the college level. It also may be satisfied by successfully completing two years of the same foreign language in high school or by demonstrating an equivalent level of competence on an assessment test. (Note: the College of Arts and Sciences requires its students to complete three semesters of college-level foreign language or pass an assessment test.)
   - Mathematics (1 course, 3 hours).
   - Other (for example courses in communication or logic). Courses in this category are not required, but may be used when additional credit hours are needed to bring the total hours completed to 40. Approved courses in this area include communication, logic and public speaking.

II. NATURAL SCIENCE (2 courses, 7-8 hours)
   - At least two courses of three or more credit hours each, and totaling a minimum of seven credit hours, are required. The courses must be from different disciplines, and at least one course must include a laboratory component, denoted by [L] in the list of general education courses.

III. SOCIAL SCIENCE (2 courses, 6 hours)
   - One course must be Political Science 1113, “American Federal Government,” (three hours)

IV. HUMANITIES (4 courses, 12 hours)
   - Understanding Artistic Forms (1 course, 3 hours)
   - Western Civilization and Culture (2 courses, 6 hours) One course must be History 1483, “United States 1492-1865,” or History 1493, “United States 1865 to Present.”
   - Non-Western Cultures (1 course, 3 hours)

V. SENIOR CAPSTONE EXPERIENCE (1 course, 3 hours)
   - Designed to integrate and culminate a student’s undergraduate study, the capstone experience might be a senior thesis or research project; a senior seminar dealing with major issues; a field experience; or, in the arts, a recital. The capstone will include a writing component.

VI. UPPER-DIVISION REQUIREMENT
   - In addition to the Senior Capstone Experience, at least one of the courses (minimum of 3 hours) used to satisfy the general education requirements must be at the upper-division level and outside of the student’s major.

HONORS COLLEGE

The Honors College has a curricular program for academically talented and motivated undergraduate students who wish to pursue an honors degree designation on their diplomas. Direct-from-high-school students in the top 10 percent of their graduating class and with a 29 ACT or 1230 SAT, transfer students and current OU students with a 3.40 grade point average and 15 college credit hours, are eligible to apply.
Honors students benefit from the small-sized honors courses taught by excellent faculty, special advising on thesis projects, undergraduate research and internship opportunities, and a variety of co-curricular programs.

OU Scholars Program
The OU Scholars Program is the single largest source of talent-based scholarships and support services for direct-from-high-school freshmen entering the University of Oklahoma. Interested students in their senior year in high school should fill out the general Honors College scholarship application in the Freshman Student Guide and send it, together with their OU admissions application, to the Admissions Office. Preference for scholarship awards is given by date of receipt; applications received after February 1 are not considered for OU Scholar awards.

Scholarship awards are made weekly by the OU Scholars Selection Committee. Awards are based on both a standardized test score (ACT or SAT) criterion and high school performance (either high school grade point average or high school class rank) criterion.

The OU Scholars advising staff is familiar with the concerns and issues common to academically talented students and provides specialized enrollment, orientation, and advising services to both OU and National Scholars during their freshman year. OU Scholars also enroll early during their freshman year, and have expanded library privileges.

PROGRAMS FOR UNDERGRADUATE RESEARCH

Undergraduate Research Opportunities Program (UROP)
The Undergraduate Research Opportunities Program is designed to provide financial awards to undergraduate students for research, scholarly or creative projects initiated under the sponsorship of a faculty member. UROP provides the students mentors with departmental funds to allow them to gain the benefits derived from direct participation in research.

Administered by the Honors College, UROP has two competitions each year, one in the fall semester for projects to be carried out the following spring and/or summer, and a second in the spring semester for projects to be carried out in the following summer and/or fall.

UROP provides undergraduate students with the opportunity to become actively involved at the leading edge of their area of study, and to work in close association with a faculty sponsor. Through UROP, undergraduate students become more active participants in their education. Interested students are strongly urged to pursue this exciting opportunity. For more information, contact the Honors College at (405) 325-5291.

Undergraduate Research Day
The Honors College sponsors an annual conference every spring on the Saturday of Mom’s Day to allow undergraduates from the University of Oklahoma and other colleges and universities in the region to present their research and creative work.

Paper sessions scheduled throughout the day and chaired by distinguished faculty members offer parents and other students an opportunity to see the quality of scholarly work being accomplished by these students. Represented disciplines include the performing arts, creative writing, social science research, life and natural science research, engineering projects, and business projects. Awards are given to the best presenters within each discipline.

GRADUATE PROGRAMS FOR ACADEMIC EXCELLENCE

The university and the Graduate College strive to promote excellence in all areas of graduate study. Several programs are available to enrich the graduate and research arena and to encourage and reward graduate students for outstanding contributions to their disciplines. Among these are the Dissertation Prizes, Graduate Teaching Awards, and the annual Graduate Student Recognition Day. Doctoral Study Grant awards, which are sponsored by the Oklahoma State Regents for Higher Education, and federally sponsored fellowship awards also are available in many graduate program areas.

For additional information on any of the programs mentioned above or other programs that may be available, please refer to the Graduate College section of this catalog.

NATIONAL MERIT, NATIONAL ACHIEVEMENT AND NATIONAL HISPANIC SCHOLARS

The University of Oklahoma has made a long-standing commitment to the recruitment and retention of outstanding high school students who have been recognized as National Merit, National Achievement, and National Hispanic Scholars. Those who are Oklahoma residents automatically qualify for the Oklahoma Academic Scholars Program administered by the Oklahoma State Regents for Higher Education.

Upon entering the university, these students receive special advising, pre-enrollment opportunities, and library privileges throughout their undergraduate careers. They also have the benefit of taking departmental advanced standing exams free of charge during their undergraduate careers. For more information, contact the National Scholars Programs, (405) 325-1290.

OKLAHOMA SCHOLAR-LEADERSHIP ENRICHMENT PROGRAM

Interdisciplinary seminars that bring students into a unique learning environment with distinguished scholars are offered through a statewide academic program, the Oklahoma Scholar-Leadership Enrichment Program. Juniors, seniors and graduate students with a 3.0 grade point average or better who are enrolled in one of the 20 four-year public and independent colleges and universities in Oklahoma, are eligible to apply to participate in an OSLEP seminar.

Seminars can be taken for two or three hours of credit, and can take

for either undergraduate or graduate credit. Scholars representing many fields meet with small groups of students (25) in intensive study and discussion of some aspect of the overall theme, “The Future of Humanity.”

Normally the seminar sessions are held between 8:30 A.M. and 4:30 P.M. each day for five days with some evening sessions. Most seminars are scheduled over weekends to minimize absence from regular classes. Approximately 10 seminars are held during an academic year, in Norman or on the campuses of the other participating universities. The University of Oklahoma administers the program on behalf of the Oklahoma State Regents for Higher Education.

Faculty from any of the participating colleges and universities may serve as resource persons for these seminars. The public is invited to a free lecture featuring the scholar’s primary area of intellectual interest.

Interested students can contact the OSLEP office for applications, reference forms, seminar schedules and further information. The OSLEP office is located in Monnet Hall, Room 559, 630 Parrington Oval, (405) 325-4309; e-mail: oslep@ou.edu; or on the Internet at www.ou.edu/oslep.

ACADEMIC COMMON MARKET

The Academic Common Market is an interstate agreement for sharing academic programs through an exchange of students across state lines. Students have access to selected programs not offered in their home states without having to pay out-of-state tuition. The Southern Regional Education Board, of which the University of Oklahoma is a member, coordinates the activities of the Academic Common Market. Information on participating states and degree programs included in each state in the Academic Common Market is available by contacting the Graduate College, Robertson Hall, (405) 325-3811, or by writing to the Southern Regional Education Board, 592 10th Street, N.W., Atlanta, GA 30318-5970.

OAK RIDGE ASSOCIATED UNIVERSITIES (ORAU)

Since 1949, students and faculty of the University of Oklahoma have benefited from its membership in Oak Ridge Associated Universities. ORAU is a consortium of colleges and universities and a contractor for the U.S. Department of Energy located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education, the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines,
including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of under-represented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available at www.orau.gov/orise/resgd.htm, or by calling either of the contacts below.

ORAU’s Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include such faculty development programs as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research, and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact R. Douglas Elmore, Robert and Doris Klabzuba Professor of Geology and ORAU Councilor for the University of Oklahoma at (405) 325-3101; contact Monnie E. Champion, ORAU corporate secretary, at (865)576-3306; or visit the ORAU Home Page at www.orau.gov.

International Programs

INTERNATIONAL EXCHANGE PROGRAMS

International Exchange Programs is a component of the International Programs Center. The general mission of the Office of International Exchange Programs (IEP) is to enhance the international dimensions of the teaching, research and public service missions of the University of Oklahoma, to put the University more prominently on the world map and to internationalize the University.

To achieve these aims, the Office of International Exchange Programs coordinates faculty, research and student exchanges with 85 universities in Latin America, Europe and Asia with which the University has signed agreements of institutional exchange.

The Office of International Exchange Programs is located in 211 Old Science Hall, (405) 325-1607. Please consult the “International Programs Center” chapter of this catalog for in-depth information on international programs and opportunities offered, including Study Abroad.

Special Facilities and Resources

The University of Oklahoma is home to a variety of special facilities and resources that contribute to the OU difference and enhance the opportunities available to OU students to achieve academic excellence.

Libraries

FACILITIES

University of Oklahoma Libraries (http://libraries.ou.edu)
The University of Oklahoma Libraries in Norman, Oklahoma City, and Tulsa are a major resource for students and faculty at the university. The research library facilities on the Norman campus include the main library and separate branch libraries for architecture, chemistry/mathematics, fine arts, engineering, geology, and physics/astronomy. The OU Law Center also has a separate library (http://www.law.ou.edu/library/) in its facility. The Library at the OU Health Sciences Center (http://library.ouhsc.edu) supports teaching and research in medicine, nursing, dentistry, pharmacy and health-related disciplines. The OU Tulsa Schusterman Center Library supports students enrolled in Tulsa-based programs (http://www.tulsa.ouhsc.edu/library/library.htm).

Bizzell Memorial Library

Bizzell Memorial Library, the main library on the Norman campus, consists of an original building constructed in 1930 and a large addition completed in 1958. The 1930 addition was recently declared a National Historic Site and contains the Peggy V. Helmerich Great Reading Room, an elegant room beloved by students and alumni. The Doris W. Neustadt Wing was built in 1982 and added 150,000 square feet to the library facility. The library includes numerous study areas and comfortable reading lounges, as well as the popular Bookmark Coffee Shop, and the Oklahoma Canyon Garden, which offers an outdoor area for reflection and study.

GENERAL COLLECTIONS

The collections in the libraries total more than 4.3 million volumes and 27,000 print and electronic serials. Many online resources are also available including more than 100 databases and more than 15,000 electronic books. The libraries also contain more than 2.6 million federal, state, and international government publications, over three million pieces of microforms, many maps, manuscripts, and audiovisual materials.

SPECIAL COLLECTIONS

In addition to the general collections, there are four notable special collections.

History of Science Collections

The Collections’ invaluable holdings of 90,000 volumes, including 50 books published before 1500, feature first editions of works important for the history of science from the invention of printing, along with later editions, translations, early scientific journals and modern secondary sources and scholarly journals necessary to support a wide variety of research and scholarship in the history of science.

Western History Collections

The Western History Collections acquire materials on Oklahoma and western history, North American Indians, the settlement of the West and related topics. The Manuscripts Division has extensive holdings of photographs, microforms, oral history, maps and the University Archives. Holdings include 75,000 books, over 12,000 cubic feet of manuscripts and 1,000,000 photographs.

Bass Business History Collections

This special collection of over 24,000 volumes, additional archival materials, and reports provides research resources on the role of business, industry and labor in American life.

The John and Mary Nichols Rare Books and Special Collections

These collections are comprised of rare books and special materials in English, European, and American literatures dating from the 15th century to the present. A collection of general rare books, and a Bible collection complement the focal literature collections. The materials offer opportunities for interdisciplinary research in such fields as literary studies, the history of printing, and religion.

BRANCH LIBRARIES

The University Libraries include six branch libraries:

- Architecture Library (Gould Hall basement), (405) 325-5521
- Chemistry-Mathematics Library (Physical Sciences, Room 207), (405) 325-5628
- Engineering Library (Felgar Hall, Room 222), (405) 325-2941
- Fine Arts Library (Catlett Music Center, Room 20), (405) 325-4243
- Geology Library (Y.S. Youngblood Energy Library - Sarkeys Energy Ctr., Room 220), (405) 325-6451
- Physics-Astronomy Library (Nielsen Hall, Room 219), (405) 325-2887

SERVICES

Library Catalog and Web site (http://libraries.ou.edu)
The University of Oklahoma Libraries offer a wealth of electronic, print and nonprint resources. Students may access many library resources through the Libraries’ Web site, http://www.libraries.ou.edu, available 24 hours a day, 7 days a week. The library catalog and Library Online Resource Access (LORA) provide access to databases, books, e-journals, high-quality Web sites, government documents, and electronic books.
Circulation and Interlibrary Loan
Most library materials are available for loan to students and faculty. Loan policies are available at the circulation desks in the library facilities and on the libraries’ home pages. Materials not held by the libraries may be obtained through interlibrary loan services on all three campuses.

Reference Services
Reference and information service is available in all library facilities, in person, by telephone, and by e-mail. Individuals may visit the reference desk at their convenience for assistance with questions or specific databases. They may also arrange an appointment with a librarian to discuss library resources and research questions. Questions may be sent electronically to E-mail a Librarian, (http://libraries.ou.edu and click Help) which will answer basic, factual questions or direct a patron to appropriate resources to begin research.

Library Instruction
The libraries provide instructional services to teach students and faculty how to access, evaluate, and use a variety of information sources. These services range from general orientation activities to classroom instruction designed to meet specific research needs.

Government Documents
State, federal, and foreign government publications are collected and made available through the Government Documents unit. Reference services and instructional sessions specific to government documents are available upon request.

Current Periodicals Room
The Current Periodicals Room houses the current issues of journals and newspapers. It is also home to older issues of journals, magazines, and special collections that have been stored on microform. Reader-printers are available for viewing these materials. The audiovisual area is also in this room, and includes disks, cassettes, CD-ROMs, DVDs, and videos. Laptop computers are available for OU students, faculty, and staff to check out from the service desk in this department. Computers are available for library research in the Michael F. Price Electronic Resource Area.

Digitizing and Copying Center
The University Libraries provide self-service copy machines throughout its facilities. Patrons can request items to be copied, scanned, faxed, or e-delivered at the Digitizing and Copying Center located on Lower Level One of Bizzell Memorial Library. The Libraries also provide a fee-based document delivery service known as Sooner Xpress to faculty, students, and staff.

Student Computer Lab
The Bizzell Library houses a Student Computer Lab that provides computers, software and laser printers for student use. The Student Computer Lab is electronically linked to other student computer labs coordinated by OU Information Technology (http://infoserv.ou.edu/it/index.cfm) on campus, which provides a standard group of word processing, spreadsheet, database, and other support software.

Museums and Collections
For many years the university has received gifts of artistic and scientific value from alumni, collectors and friends of the university. As a result, the two museums on the University of Oklahoma campus, the Fred Jones Jr. Museum of Art and the Sam Noble Oklahoma Museum of Natural History, possess many valuable collections.

THE FRED JONES JR. MUSEUM OF ART
The Fred J. Museum of Art is one of the finest university art museums in the United States. The 2000 bequest of the Aaron M. and Clara Weitzenhofer Collection, the most important gift of art ever to an American public university, makes the museum one of the premier repositories of French impressionist art in the Great Plains states, with works by Monet, Renoir, Degas, Pisarro, Van Gogh, Gauguin, Toulouse-Lautrec, Bonnard, Vuillard, and others. The gift also includes 18th-century English decorative arts. The permanent collection’s other strengths are 20th-century American painting and sculpture, Native American art, contemporary art, ceramics, photography, Asian art, and European graphics from the 16th century to the present, while the Richard H. and Adeline J. Fleischaker Collection, acquired in 1996, makes the museum a destination for the study of the art of the Southwest. Several temporary exhibitions are mounted annually that explore the art of various periods and cultures.

The collections were housed in Jacobson Hall from 1936 until 1971, when the museum of art found a permanent home at 410 W. Boyd St. The facility, donated by Mr. and Mls. Fred Jones Sr., of Oklahoma City in memory of their son, currently contains nearly 30,000 square feet of exhibition, storage, preparation, and office space. An expansion, designed by renowned architect Hugh Newell Jacobsen, will house the Weitzenhofer Collection and additional galleries.

The museum serves the educational needs of the university and the extended community. Programs are coordinated with the university faculty and the state’s school districts, while lectures, videos, and films complement the exhibitions. Regularly scheduled Family Days serve hundreds of visitors throughout the year. The museum provides information and curriculum guides to teachers and university faculty, and it sponsors the pARTner project, an arts education program that reaches 1,200 Norman Public School students annually. Tours are offered to all ages. Internships are available for students with an interest in museum careers.

The FJMA museum shop carries a variety of merchandise, such as exhibition-related items, museum reproduction jewelry, posters, catalogs, children’s coloring books, museum T-shirts, books, notes, and cards.

The Museum of Art is open Tuesdays, Wednesdays and Fridays 10 a.m. to 4:30 p.m.; Thursdays 10 a.m. to 9 p.m.; Saturdays and Sundays noon to 4:30 p.m. Home football game Saturdays, the museum is open from 10 a.m. until kickoff. The museum is closed on Mondays and holidays. During the summer and the spring break holiday the museum is open from noon to 4 p.m. Tuesday through Sunday. Admission is free.

SAM NOBLE OKLAHOMA MUSEUM OF NATURAL HISTORY
The Sam Noble Oklahoma Museum of Natural History, located just south of the intersection of Timberdell Road and Chautauqua Avenue, has extensive collections in earth, life and social sciences, including more than six million specimens and artifacts. These collections represent a vast and irreplaceable resource of the natural and cultural heritage of Oklahoma and many other parts of the world. The SNOMNH is the official museum of natural history for the state of Oklahoma as well as an independent research unit of the University of Oklahoma. The museum curators, all faculty members, conduct original research and teach in their collection areas, while overseeing the research of graduate students and visiting scientists. The curators also maintain an active lending program that makes specimens available to scholars throughout the world. The collections provide the basis for a variety of exhibitions, public service programs and educational activities. Major collection areas include vertebrate and invertebrate paleontology, archaeology, classical art and archaeology, entomology, ethnology, herpetology, history, ichthyology, invertebrate zoology, mammalogy, ornithology and paleobotany.

Majestic exhibit halls, impressive research and educational facilities, and countless unseen features are integral parts of the magnificent Sam Noble Oklahoma Museum of Natural History. (Photo by Timothy Hunley)
The University of Oklahoma 2003-2006 General Catalog

Special Facilities and Resources

The 198,000-square-foot facility for the museum opened to the public on May 1, 2000. The new facility contains space for extensive exhibits—10 times that of the former building—and a café, gift shop, education classrooms and a hands-on Discovery Room.

❖ The Siegfried Family Hall of Ancient Life leads visitors on an adventure through time. Visitors begin their journey in Oklahoma’s Precambrian seas and are impressed by the wealth of Paleozoic marine life known from our state. Mesozoic exhibits showcase the Age of the Dinosaurs and feature the largest apatosaurus and pentaceratops in the world. Life and death struggles among these largest of land vertebrates are staged using mounted dinosaur skeletons. In this gallery, visitors experience dramatic changes in Oklahoma’s environment over time and watch as the dinosaurs’ eventual demise gives way to a landscape dominated by birds and mammals.

❖ The Noble Drilling Corporation Hall of Natural Wonders features diverse plant and animal life and engages visitors in ecological and evolutionary stories from Oklahoma and from around the globe. Visitors pass through the Ozark and Ouachita Highlans; swamp bottomland; Cross Timbers; tall, mixed and short grass prairies; and Oklahoma’s big rivers, finally emerging onto Black Mesa.

❖ The McCasland Foundation Hall of the People of Oklahoma tells the fascinating story of 12,000 years of human history in Oklahoma. Exhibits in this gallery include full-scale dioramas and artifact displays that interpret the lifeways of ancient and contemporary cultures from throughout the state. This gallery features the early hunting peoples of the state and displays the very first example of representational art in North America, a red ochre lightning bolt painted on a bison skull by people of the Folsom culture 10,000 years ago. Engaging dioramas will depict contemporary Native American cultures from eastern, central and western regions of the state.

❖ The Merkel Family Foundation Gallery of World Cultures features changing exhibits of treasures from throughout the world. This gallery opened with objects from past and present-day civilizations, including Greece, Rome, Japan, China, India, the South Pacific and South America. The artifacts featured include coins, armor, bronzes, statuary, musical instruments, pottery textiles and porcelain. Among the highlights are Greek vases that date back before the birth of Christ, pottery featuring remarkable artwork and an eye cup so exceptional and valuable that the Louvre in Paris and the SNOMNH are two of only four museums in the world to possess such a piece.

❖ The Fred and Enid Brown Native American Art and Special Exhibits Gallery opened with an interpretive exhibit of the talents of Native American artists from Oklahoma, the Southwest and other parts of the continent. This gallery will be the location for traveling exhibits and special visiting exhibitions.

With collections that document 300 million years of Oklahoma’s natural history, the SNOMNH is one of the two largest natural history museums in the world associated with a university. The museum is open 10 a.m. to 5 p.m. Tuesday through Saturday and 1 to 5 p.m on Sunday. It is closed on Mondays, Thanksgiving, Christmas and New Year’s Day. Admission is $4 for adults, $3 for seniors and faculty and staff, $2 for children ages 6 and older and no charge for children 5 and younger and OU students with ID. For more information, visit the museum’s Web site at www.snomnh.ou.edu or call 405-325-4712.

Co-ops and Internships

Cooperative education, internships, and practicums, which are available in a wide variety of settings, can make students’ academic study come alive by providing practical experience related to their academic goals. This experience can help students evaluate their career choices and enhance their employability upon graduation.

More than 50 undergraduate fields of study offer positions, ranging from informal arrangements between a professor and a business colleague to formal, required internships. Some internships are paid positions; other field experiences may provide the opportunity to earn credit toward a degree while gaining practical work experience. Co-ops are always paid experiences.

Visit Career Services to identify openings and opportunities and contact the representative who coordinates specialized programs through your academic department. Career Services will help you learn the job-search skills and techniques necessary to be successful in the application process. For additional information, contact Career Services, 323 Oklahoma Memorial Union, (405) 325-1974.

Applications for Prestigious Scholarships and Fellowships

The Honors College maintains complete application information and works with outstanding undergraduates in their quest for Rhodes Scholarships, British Marshall Scholarships, Goldwater Scholarships, Truman Scholarships, Mellon Fellowships, and the Elie Wiesel Essay Competition.

In addition, the Honors College maintains application information for the Carl Albert Public Internship Program, the Washington Center Internship and Seminar Program, and the U.S. Department of State Student Internship Program.

Because each competition or program has its own particular rules and regulations, the Honors College also offers a one-credit-hour course each spring to help outstanding students begin to prepare themselves for such competition. For more information, contact the Honors College, 1300 Asp Ave., (405) 325-5291.

University of Oklahoma Press

The University of Oklahoma Press, the award-winning book-publishing division of the university, won more than 130 honors for the content of its books from 1988 to 1998.

The press has been in continuous operation since publishing its first book in 1929. It has published more that 1,950 titles, of which about 950 are now in print. The press publishes 100-plus new titles a year on subjects ranging from anthropology to women’s studies, with special strengths in the history of the American West, American Indian studies, Mesoamerican studies, Greek and Latin classics, natural history, and political science. The press recently inaugurated the Plains Reprints series, bringing back into print books of quality that have been out of print.

You are invited to visit the Press’s website: www.oup.com to browse or purchase books. When you are on the Norman campus, you may stop by the press lobby at 1005 Asp Ave., at any time to browse or purchase. You will see a variety of topics, including Shannon Miller, America’s foreign policy, and America’s national historic trails. Complete title listings and new releases also are found in general and seasonal catalogs that can be requested by writing to the: University of Oklahoma Press, 1005 Asp Ave., Norman, OK 73019-6051.
World Literature Today

World Literature Today, founded in 1927 as Books Abroad, is a quarterly journal published by the University of Oklahoma and devoted to the review of contemporary belles lettres throughout the world. Each issue contains articles and commentaries on leading writers and significant literary trends, plus approximately 300 reviews of the newest fiction, poetry, drama, essays, biography, and criticism published in more than 50 languages on six continents. WLT is the only publication anywhere, in any language, that provides such thorough, systematic, and broad-ranging coverage of current literary activity.

Neustadt International Prize for Literature

The Neustadt International Prize for Literature, sponsored by the University and World Literature Today, is a biennial $50,000 award that honors outstanding achievement in fiction, poetry, or drama and is open to writers in any language. Often referred to as the “American Nobel” for the high quality of its laureates, candidates, and jurors (23 have been awarded the Nobel Prize in Literature subsequent to their involvement with the Neustadt, and one has received the Nobel Peace Prize), the Neustadt Prize is the first international literary award of such scope to originate in the United States and is one of the very few international prizes for which poets, fiction writers and dramatists are equally eligible. Founded in 1969 and conferred 21 times since 1970, the prize bears the name of the Neustadt family of Ardmore, Okla., whose 1972 endowment has ensured funding of the award in perpetuity. Recipients include such noted authors as Gabriel Garcia Márquez, Elizabeth Bishop, Czeslaw Milosz, Octavio Paz, Max Frisch, Raja Rao, and Kamau Brathwaite.

The Puterbaugh Conferences

The Puterbaugh Conferences on World Literature are a biennial series sponsored by the University of Oklahoma’s international literary quarterly, World Literature Today, in collaboration with the Department of Modern Languages, Literatures and Linguistics and the Department of English. Originally named the Oklahoma Conferences on Writers of the Hispanic Languages, Literatures and Linguistics and the Department of English. Since 1992, its scope has been unrestricted. The Puterbaugh Foundation of McAlester, Okla., in 1978. The scope of the conferences was expanded at that time to include writers from the French-speaking world as well as from Spain and Spanish America. Since 1992, its scope has been unrestricted. Each conference brings a prominent author to the university for two weeks of lectures and seminars. At the end of the author’s stay, a two-day symposium on his or her work is held, featuring specialists and scholars. The conference papers are published in a subsequent special issue of World Literature Today. A reading by the author concludes the conference activities.

Information Technology

IT’s mission is to provide world-class information technology services that support and advance the mission of the University of Oklahoma, and to be a leader in providing the best educational experience for our students. The Office of Information Technology (IT) embraces a systematic, campus-wide approach to administrative and academic computing—computing used by students, faculty and staff in direct support of the core academic missions of education and research. Information Technology has developed a clear and defined path that will help establish IT as the technology resource needed to support a leading research university. At the forefront of this realignment is the understanding that all organizational goals and objectives are based on the President’s academic, administrative and student affairs goals, and are aligned with information technology best-practice strategies in higher education. Achieving these goals will enable IT to realize not only the possibilities, but prepare OU for events and decisions that we can’t now imagine.

Summary of Organizational Goals:

- **Infrastructure** A solid and reliable technology infrastructure is the foundation upon which all technology applications and services are built. This is the number one priority for IT, as it serves as the fundamental core for all technical activities at OU.
- **Security** In addition to an outstanding infrastructure, IT firmly believes that an investment must be made and continued to provide university-wide information security. The investment will pay for itself by ensuring critical institutional and intellectual data is safe and secure.
- **Standardize Platforms** Greater productivity and efficiencies can be realized by standardizing hardware and software platforms campus-wide. Although standards are tough to enforce on a university campus, the equipment that IT supports should be reasonably selective and the variety of operating systems, databases and hardware types should be limited to a few flexible industry-standard options that can adequately and efficiently be supported by IT. Such technology tools and solutions as e-mail, should be easy to use, standards-based, and offer improved capabilities for our students, faculty and staff.
- **Classroom Technology** It is not enough for IT to provide technology to technicians. IT must inspire, enable, and support technology integration in the classroom so that faculty who need and want to use technology in their courses are not intimidated or limited.
- **Technology for Students** Our students have grown up with computers and the Internet. Their expectations are quite different from students even a decade ago, which means that the university needs to provide every student the same or better opportunities than they had at home. One of the most attractive and popular organizations and services on the OU campus continues to be the Sooner Information Network (SIN) online community. Students are encouraged to utilize such other online services as enrollment and bill paying, with many applications and forms planned for online availability in the near future.
- **Administrative Systems** This will allow the university to operate more efficiently and effectively, consolidate functions, reduce duplication, and share resources between campuses to improve processes, increase efficiencies, and reduce costs. Legacy administrative services have reached the end of their efficient and effective lives in supporting our business applications. This is primarily due to the enhanced technology solutions available and implemented worldwide. We can reduce the dependency and single points of failure of our business operations on obsolete, cumbersome, and complex administrative systems by minimizing custom software development and purchasing industry-standard, off-the-shelf packages whenever feasible.

These goals provide the framework for IT’s core priorities:

1. **Campus computing infrastructure**, including the maintenance and upgrades of the core network
2. **Security**, securing availability and reliability, ensuring appropriate information access
3. **Faculty support/classroom technologies**
4. **Student systems and services/online student community**
5. **Consultation**, responding to units’ needs in implementing administrative systems and decision-making tools
6. **Assistance for all departments in meeting computing needs**
7. **Compatibility between and among campus computing systems**

IT serves as an advisor for the strategic planning, integration and implementation of all aspects of university information technology, and provides central and distributed computer and information resource support for teaching, research, workplace automation, process improvement and University information requirements.

Information Technology is organized in teams that focus on strategic planning, project management, operations, and technology support services, which collectively advise on, plan and manage information and technology services for the campus community. All design, implementation, and operational support of these services are conducted with the goals of providing the highest levels of ease of use and effective integration of innovative educational technologies. Information Technology actively seeks partnerships with other university departments, peer institutions, community sponsors, and industry leaders to help the university realize and maintain its strategic advantage among leading institutions. For additional information, please see www.ou.edu/it, call (405) 325-HELP (4357), or send e-mail to needhelp@ou.edu.
Orientation and Advisement

Orientation

ORIENTATION FOR NEW STUDENTS

Advising and orientation of students at the University of Oklahoma is a continuous process designed to provide OU students with the knowledge they need to succeed academically and socially. For many students, the process begins while they are still in high school during Sooner Saturday, an on-campus introduction to the university for prospective students and their parents.

Initial academic advising for new students is provided through several activities that present information to new students and their parents about academic and non-academic programs of the university, along with individualized academic advising and the opportunity to pre-enroll in classes for the fall semester. These include:

- **Summer Enrollment Program**—University College’s summer orientation and advance enrollment program for new freshmen and undecided or prehealth transfer students who have been admitted to the university. Parents of students are encouraged to attend.
- **OU Scholars Enrollment**—a summer advance enrollment program for recipients of academic merit scholarships from the Honors College.
- **National Merit Scholars Enrollment**—a summer advance enrollment program for recipients of National Merit, National Achievement, and National Hispanic scholarships.
- **Transfer Day**—an orientation, advisement, and advance enrollment program for new transfer students held during the spring semester.

PRE-SEMESTER ORIENTATION

Additional orientation programs are provided for new students prior to the beginning of classes. These include:

- **New Sooner Orientation**—a general orientation program for new students held during the four days preceding the first day of classes. The program begins with New Sooner Convocation during which new students are formally inducted as members of the University community. Other activities include workshops on stress management, time management, and study skills; campus and library tours; information sessions on academic support services, counseling, and health services; receptions hosted by each college; special sessions for parents, minority students, transfer students, adult freshmen, and international students; and a variety of social events. For more information, contact the Center for Student Life, Oklahoma Memorial Union, (405) 325-6873.
- **OU Scholars Orientation Program**—OU Scholars are required to attend a half-day workshop to assist them in making a successful transition to OU. Topics include campus resources, stress management, time management, and study skills. For more information, contact the OU Scholars Office in the Honors College.
- **Orientation for Graduate Teaching Assistants**—The Office of Instructional Development sponsors training programs for all teaching assistants during the week before classes begin in the fall semester. In addition, there is a special intensive five-day training program for new international teaching assistants. For more information, contact the Office of Instructional Development, University College, Carnegie Building, (405) 325-3521.

ORIENTATION COURSES

New students also have the opportunity to participate in one of two types of orientation courses during their first year of enrollment. These include:

- **Gateway to College Learning**—Each section is limited to a maximum of 28 students and is taught either by experienced faculty or staff members. The course deals with a variety of topics designed to orient students to the university community and to help them make a successful transition from high school to college.
- **Freshman Seminars**—Each seminar is limited to 22 students and is taught by an individual faculty member who leads the students through an in-depth exploration of a specific intellectual topic.

Advisement

ACADEMIC ADVISEMENT AND COUNSELING SERVICES

General advising for most freshmen and many sophomores is provided by University College, a non-degree college that focuses on helping students make the transition to the university and provides them with academic advising and a variety of counseling services to help them be successful academically. During the freshman year, the OU Scholars Program within the Honors College provides specialized advising services to OU Scholars and National Scholars.

Once students are admitted to a degree college, they are advised either by academic counselors in the college office or by faculty advisors in the department in which they are majoring.

In addition to formal academic advising, students may select from a wide variety of additional counseling and support services, including workshops offered by the Assessment and Learning Center and the Center for Student Life; individual career advising by Career Services; and academic assistance through the Writing Center and several tutoring programs.

Project Threshold

Project Threshold is an academic support program established in 1970 to provide services to students from educationally and economically disadvantaged backgrounds. The primary goal of this program is to provide...
services and programs that increase the persistence and graduation rates of program participants.

To accomplish this goal, Project Threshold provides personal, academic, and financial aid counseling as well as academic tutoring. In addition, small sections of freshman-level courses are offered to Threshold students to help ease the adjustment to larger college classes. The ethnic diversity of the staff further serves to provide the student a sense of belonging.

Inquiries should be directed to Project Threshold, 517 Physical Sciences Center, 601 Elm St., Norman, OK 73019-0315, (405) 325-6261.

GENERAL PRINCIPLES IN PLANNING A PROGRAM

- If you have selected a major, learn all the requirements for your chosen degree program.
- Prepare a plan of study showing the courses you will take each semester that will complete requirements for graduation.
- The degree program should be designed according to the rules and regulations that govern enrollment and graduation. These rules and regulations can be found in the specific chapter of this catalog providing information about the college offering your major as well as the chapter, “Admission, Enrollment, and Graduation.”
- Freshmen and sophomores who are unsure of a major should choose courses that will fulfill University-Wide General Education Requirements and provide exposure to disciplines that are of interest for selection of a major.
- Utilize the University General Catalog, degree checksheets and the Advisement/Degree Audit (ADA) to plan your program.
- Take basic required courses such as English composition, foreign languages and mathematics that provide a sound foundation for future successful enrollments early in the academic program.
- Include courses early in the program that are required for admission to the degree college offering the chosen major.
- Schedule upper-division courses for the junior and senior years with few exceptions in your schedule.
- Look into such programs that will enhance your individual program as study abroad, internships, and research opportunities.
- Balance enrollments to avoid including too many heavy reading courses, too many laboratory courses, or too many credit hours in one semester or term.
- Attempt to schedule all specifically required courses prior to the final enrollment.
- Plan the final semester with fewer hours to allow for such activities as job interviews.
- Plan an enrollment of 12-19 hours, according to academic ability and responsibilities outside of class, for the fall and spring semesters (6-9 hours are appropriate for the summer term). Students should anticipate that each credit hour taken will normally require a minimum of two hours each week for study time outside of class.

GRADUATION PLAN

The University of Oklahoma has instituted a graduation plan for many degree programs. This plan requires the student and the university to sign a contract that guarantees the student can graduate in a specified period of time based on certain conditions that can be detailed when the student talks with an academic adviser on campus.

ACADEMIC MAJOR AND MINOR

Major

The major is the emphasis of study that provides depth of learning within the degree program. It is composed of specific requirements determined by the department through which the major is offered. Although many majors are highly structured, some offer flexibility, allowing choice of courses within preset guidelines. Each major is fully described in the section of this catalog where information is provided about the unit offering the major.

Minor

The minor is a secondary and optional area of interest for depth of study. It can be closely related to the major to serve as a support area, or it can be unrelated. The department through which it is offered sets the requirements for the minor. Presently, the College of Architecture, College of Arts and Sciences, Price College of Business, and College of Geosciences offer approved minor programs. The minors are made available by the colleges to all students within the university, except for those in the College of Business that are for business majors only. The minor programs are described in the section of this catalog where information is provided about the unit through which they are offered. Upon graduation, the student’s official transcript will reflect completion of a minor if recommended by the student’s degree college.

Preparing for Graduate and Professional Studies

When preparing for your future, we encourage you to consider graduate and professional studies. Advanced study can provide more in-depth research and creative experiences in your chosen field of study. You will work closely with faculty on particular subjects to develop the skills necessary for research and independent thought.

Graduate assistantships and internships provide additional opportunities to develop your skills and talents while working toward an advanced degree. Attendance at professional meetings can provide opportunities for valuable exchanges of information and ideas with colleagues in your discipline.

Career options are greatly enhanced by completion of an advanced degree, and we hope you will avail yourself of the opportunities that are available at the University of Oklahoma.

Career Planning

Career Services

Career decision-making is a continuing process requiring active involvement in the investigation of self, education, and career possibilities. There are two main approaches to choosing a major and relating it to a career goal:

1. Choose a major because it is intellectually stimulating and developmentally a career goal while progressing through the program; or
2. Decide on a career goal first and then choose a major that will provide the best preparation for that career.

Whichever method you use, it is important to identify your skills, interests, and values; to explore majors and their relationships to careers; and to pursue a goal.

Developing educational plans and career goals are closely related, and the university offers a broad range of assistance to its students. Academic advisers from the various colleges and/or departments can help you select your academic major and plan a course sequence to fulfill degree requirements.

The University College course (UCOL 1002) “Gateway to College Learning” is an excellent introduction to the university and a basic foundation on which to build your educational and career goals. In addition to the University College and the individual college and departmental advisement units, the following offices can be helpful:

- Assessment and Learning Center, Carnegie Building, Room 200
- Career Services, Oklahoma Memorial Union, Room 323
- Counseling and Testing Services, Goddard Health Center, Room 201
- Center for Student Life, Oklahoma Memorial Union, Room 370

Career Services (Oklahoma Memorial Union, Room 323) also offers programs to assist students in learning job search skills and providing various avenues to help students identify and obtain internships, co-ops and professional employment. Career Services provides a highly regarded program of on-campus interviewing, resume/job matching and credential services to bring you in contact with employers.

If you participate in the available programs and services, you can enjoy the satisfaction of the rich experiences offered by the University of Oklahoma. It’s your future; plan it wisely.
Career Planning Calendar

FRESHMAN YEAR
- Analyze your personal interests, needs, skills, values, and goals and identify skill areas you would like to develop.
- Participate in campus organizations and activities that interest you.
- Obtain career-related information by attending career fairs, using the Career Services library and discussing ideas with academic advisers, professors, other students, relatives, and friends (networking).
- Use computer-assisted guidance systems, including DISCOVER (located at the Assessment and Learning Center, 200 Carnegie Building).
- Participate in career-interest testing and interpretations (located at Counseling and Testing Services, 201 Goddard).
- Learn how to write a resume and to interview for a summer job related to your career interests.
- Pick up a copy of “50 Clues To Getting the Job You Want With an OU Degree” from Career Services and act on the items appropriate for you.

SOPHOMORE YEAR
- Continue your appraisal of your skills, needs, interests, values, and goals.
- Interview individuals doing work of interest to you (information interviewing).
- Take advantage of courses available to assist you with career decisions such as EDPY 2012, Career/Life Planning.
- Look for opportunities to attend such events featuring employers as career fairs, campus organizations, and employer information meetings sponsored by Career Services, your college, or your department.
- Join a campus organization related to your major or career interests (more networking).
- Attend one or more of the Exploring Majors Series (schedules available at Center for Student Life, 370 Oklahoma Memorial Union).
- Examine the Career Services’ on-campus interview and resume/job matching programs and determine the appropriate time to register with that office.
- Review Career Services internship and co-op resources and decide whether to apply.

JUNIOR YEAR
- Enhance your job search, resume writing, and interview skills by attending workshops and using resources available through Career Services.
- Take an active role in campus organizations to develop leadership and communication skills.
- Develop a list of employers in your field and collect literature on these employers.
- Use campus career fairs to expand your contacts and to apply for jobs.
- Research internship/cooperative education opportunities through Career Services and your academic department and obtain career-related employment.
- Update your resume.
- Use the Internet for career-related research.

SENIOR YEAR
- Register with Career Services and participate in the on-campus interviewing, resume/job matching and/or credential services.
- Work with a Career Services professional to focus your job search.
- Identify and research specific employers you wish to contact.
- Contact the employers of choice.
- Review job openings available through Career Services and across campus.
- Use career fairs to apply for jobs.
- Attend meetings of professional associations as a student member to network with professionals in your field.
- Use the Internet to look for jobs and contact employers.
- Report salary offers and position acceptances to Career Services.
## Academic Majors — Undergraduate and Graduate

In addition to the programs listed below, the University offers options within many of the programs and a number of dual degree programs along with preparatory programs in the health sciences. Please refer to the listing of major codes and the index at the back of this catalog for these areas.

**LEGEND:** College abbreviations used in this table are as follows:

- **ARCH** - Architecture
- **A&S** - Arts & Sciences
- **BUS** - Business
- **CCE** - Continuing Education
- **EDUC** - Education
- **ENGR** - Engineering
- **FA** - Fine Arts
- **GEOS** - Geosciences
- **GRAD** - Graduate
- **HON** - Honors
- **JMC** - Journalism
- **LAW** - Law
- **LIB ST** - Liberal Studies
- **UCOL** - University College

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### Academic Majors — Undergraduate and Graduate

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# HOW TO APPLY TO OU

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<th>APPLICATION/CREDENTIALS SUBMITTED TO:</th>
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<td>Norman Campus</td>
<td>Traditional on-campus degree programs (including the first 2-3 years of the undergraduate health professions degrees)</td>
<td>Office of Prospective Student Services 550 Parrington Oval, Room L-1 Norman, OK 73019-3032 (405) 325-2151; 1-800-234-6868 FAX: (405) 325-7478</td>
<td>Office of Admissions University of Oklahoma 1000 Asp Avenue Norman, OK 73019-4076 (405) 325-2252; FAX (405) 325-7124</td>
</tr>
<tr>
<td>Norman Campus</td>
<td>Traditional on-campus degree programs.</td>
<td>Graduate College University of Oklahoma 731 Elm Avenue, Room 100 Norman, OK 73019-2111 (405) 325-3811; FAX (405) 325-5346</td>
<td>Office of Admissions University of Oklahoma 1000 Asp Avenue Norman, OK 73019-4076 (405) 325-2252; FAX (405) 325-7124</td>
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<tr>
<td>Norman Campus</td>
<td></td>
<td>College of Law University of Oklahoma 300 Timberdell Norman, OK 73019-5081 (405) 325-4725; FAX (405) 325-0502</td>
<td>College of Law Office of Admissions University of Oklahoma 300 Timberdell Norman, OK 73019-5081 (405) 325-4725; FAX (405) 325-0502</td>
</tr>
<tr>
<td>College of Continuing Education, Norman Campus</td>
<td>Provides academic outreach opportunities to the state, region, and nation. Comprehensive, multidisciplinary academic services focus on the adult learner. Non-traditional formats, credit and non-credit courses, seminars, workshops, and conferences are offered.</td>
<td>College of Continuing Education University of Oklahoma 1700 Asp Avenue Norman, OK 73072-6400 (405) 325-4414; FAX (405) 325-7698</td>
<td>Office of Admissions College of Continuing Education University of Oklahoma 1700 Asp Avenue Norman, OK 73072-6400 (405) 325-1021; FAX (405) 325-7273</td>
</tr>
<tr>
<td>College of Continuing Education, Norman Campus</td>
<td>Offers master’s degree programs in intensive format on campus and at a variety of off-campus sites worldwide. Two or three-credit hour courses are completed over two weekend sessions or one weekend session combined with one of eight evening courses. One interdisciplinary Ph.D. program is offered in Heidelberg, Germany.</td>
<td>Advanced Programs University of Oklahoma 1610 Asp Avenue, Room 400 Norman, OK 73072-6405 (405) 325-3333; FAX (405) 325-3335</td>
<td>Office of Admissions College of Continuing Education University of Oklahoma 1700 Asp Avenue Suite 220 Norman, OK 73072-6400 (405) 325-1229; FAX (405) 325-6492</td>
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<tr>
<td>College of Continuing Education, Norman Campus</td>
<td>Offers print and audio-based correspondence study as an alternative way to earn college credit at OU. Also offers high school-level courses, national standardized and OU departmental advanced standing examinations.</td>
<td>Office of Independent Study University of Oklahoma 1600 S. Jenkins, Room 101 Norman, OK 73072-6507 (405) 325-1921; FAX (405) 325-7687</td>
<td>Office of Independent Study University of Oklahoma 1600 S. Jenkins, Room 101 Norman, OK 73072-6507 (405) 325-1921; FAX (405) 325-7687</td>
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<tr>
<td>College of Continuing Education, Norman Campus</td>
<td>Offers credit and non-credit courses during the short periods between fall and spring semesters, spring semester and summer term, and summer term and fall semester.</td>
<td>Intersession Office University of Oklahoma 1700 Asp Avenue, Room 209 Norman, OK 73072-6400 (405) 325-2899; FAX (405) 325-7044</td>
<td>Credit classes only: Office of Admissions University of Oklahoma 1000 Asp Avenue Norman, OK 73019-4076</td>
</tr>
<tr>
<td>College of Continuing Education, Norman Campus</td>
<td>Offers graduate and undergraduate credit courses taught on-campus and transmitted to other sites around the state such as OSU, Tulsa, the Duncan Higher Education Center, etc. Residence credit given to distance students. This program was formerly known as compressed video and/or talkback television. (Check with Television Programs for other site locations.)</td>
<td>Interactive Educational Television (ETV) Television Programs 1600 S. Jenkins, Room 112 Norman, OK 73072-6507 (405) 325-6682; FAX (405) 325-7687</td>
<td>To attend these classes on-campus: Office of Admissions University of Oklahoma 1000 Asp Avenue Norman, OK 73019-4076 (405) 325-2252; FAX (405) 325-7124</td>
</tr>
<tr>
<td>College of Continuing Education, Norman Campus</td>
<td>Offers undergraduate credit courses delivered through Norman Cable and OETA (statewide PBS network, Channel 18 on Cox Cable Educational Television Consortium) fall, spring, and summer semesters.</td>
<td>Telecourses Television Programs 1600 S. Jenkins, Room 112 Norman, OK 73072-6507 (405) 325-6682; FAX (405) 325-7687</td>
<td>To attend these classes off-campus: Office of Admissions College of Continuing Education University of Oklahoma 1700 Asp Avenue Norman, OK 73072-6400 (405) 325-1021; FAX (405) 325-7273</td>
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<tr>
<td>College of Continuing Education, Norman Campus</td>
<td>Offers two academic programs: Bachelor of Liberal Studies (BLS) and Master of Liberal Studies (MLS). Other programs include seminars for credit and a museum emphasis for the MLS. Studies are liberal arts and interdisciplinary in nature, geared primarily—but not exclusively—to the non-traditional adult student.</td>
<td>College of Liberal Studies University of Oklahoma 1700 Asp Avenue, Suite 226 Norman, OK 73072-6400 (405) 325-1061; or 1-800-522-4389 FAX (405) 325-7112, Attn.: CLS e-mail: <a href="mailto:cls@ou.edu">cls@ou.edu</a></td>
<td>College of Liberal Studies University of Oklahoma 1700 Asp Avenue, Suite 226 Norman, OK 73072-6400 (405) 325-1061; or 1-800-522-4389 FAX (405) 325-7132, Attn.: CLS</td>
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<tr>
<td>University of Oklahoma Programs in Tulsa</td>
<td>University of Oklahoma Tulsa Office 4502 E. 41st St. Tulsa, OK 74135-2512 (918)660-3000 e-mail: <a href="mailto:TulsaInfo@ou.edu">TulsaInfo@ou.edu</a> <a href="http://tulsa.ou.edu">http://tulsa.ou.edu</a></td>
<td>Norman Campus Programs: University of Oklahoma Tulsa Office of Admissions 4502 E. 41st St. Tulsa, OK 74135-2514 Health Sciences Center Programs: Applications are submitted to the Health Sciences Center in Oklahoma City. See HSC section of the chart for address information.</td>
</tr>
<tr>
<td>UNDERGRADUATE</td>
<td>HSC Student Affairs 1106 N. Stonewall Student Union RM.300 Oklahoma City, OK 73104 (405) 271-2416; FAX: (405) 271-8817</td>
<td>Office of Admissions and Records Univ. of Oklahoma Health Sciences Center P. O. Box 26901; BSEB Room 200 Oklahoma City, OK 73190-0001 (405) 271-2359; FAX: (405) 271-2480</td>
</tr>
<tr>
<td>College of Allied Health</td>
<td>Office of Academic &amp; Student Services College of Allied Health Univ. of Oklahoma Health Sciences Center P.O. Box 26901; CBH Room 165 Oklahoma City, OK 73190-0001 (405) 271-6556; FAX: (405) 271-3120</td>
<td>Office of Admissions and Records Univ. of Oklahoma Health Sciences Center P. O. Box 26901; BSEB Room 200 Oklahoma City, OK 73190-0001 (405) 271-2359; FAX: (405) 271-2480</td>
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<tr>
<td>College of Dentistry</td>
<td>Department of Dental Hygiene College of Dentistry Univ. of Oklahoma Health Sciences Center P.O. Box 26901; DCS Room 567 Oklahoma City, OK 73190-0001 (405) 271-4435; FAX: (405) 271-3423</td>
<td>Office of Admissions and Records Univ. of Oklahoma Health Sciences Center P. O. Box 26901; BSEB Room 200 Oklahoma City, OK 73190-0001 (405) 271-2359; FAX: (405) 271-2480</td>
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<tr>
<td>College of Nursing</td>
<td>Administrative Office College of Nursing Univ. of Oklahoma Health Sciences Center P.O. Box 26901; CNB Room 109 Oklahoma City, OK 73190-0001 (405) 271-2428; FAX: (405) 271-7341</td>
<td>Office of Admissions and Records Univ. of Oklahoma Health Sciences Center P. O. Box 26901; BSEB Room 200 Oklahoma City, OK 73190-0001 (405) 271-2359; FAX: (405) 271-2480</td>
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<td>PROFESSIONAL</td>
<td>HSC Student Affairs 1106 N. Stonewall Student Union RM.300 Oklahoma City, OK 73104 (405) 271-2416; FAX: (405) 271-8817</td>
<td>Office of Admissions and Records Univ. of Oklahoma Health Sciences Center P. O. Box 26901; BSEB Room 200 Oklahoma City, OK 73190-0001 (405) 271-2359; FAX: (405) 271-2480</td>
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<td>College of Allied Health</td>
<td>Office of Academic &amp; Student Services College of Allied Health Univ. of Oklahoma Health Sciences Center P.O. Box 26901; CBH Room 165 Oklahoma City, OK 73190-0001 (405) 271-6556; FAX: (405) 271-3120</td>
<td>Office of Admissions and Records Univ. of Oklahoma Health Sciences Center P. O. Box 26901; BSEB Room 200 Oklahoma City, OK 73190-0001 (405) 271-2359; FAX: (405) 271-2480</td>
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<tr>
<td>College of Dentistry</td>
<td>Office of Admissions College of Dentistry Univ. of Oklahoma Health Sciences Center P.O. Box 26901; DCS Room 512 Oklahoma City, OK 73190-0001 (405) 271-3430; FAX: (405) 271-3423</td>
<td>Office of Admissions and Records Univ. of Oklahoma Health Sciences Center P. O. Box 26901; BSEB Room 200 Oklahoma City, OK 73190-0001 (405) 271-2359; FAX: (405) 271-2480</td>
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<tr>
<td>College of Medicine</td>
<td>Office of Admissions College of Medicine Univ. of Oklahoma Health Sciences Center P.O. Box 26901; BMS Room 357 Oklahoma City, OK 73190-0001 (405) 271-2331; FAX: (405) 271-3032</td>
<td>Applications processed through the American Medical College Application Service (AMCAS) <a href="http://www.aamc.org">www.aamc.org</a></td>
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<td>Communication Science</td>
<td>P. O. Box 26901; CHB Room 165</td>
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<td>Nutritional Science</td>
<td>Oklahoma City, OK 73190-3040</td>
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<td>Rehabilitation Sciences</td>
<td>(405) 271-6500; FAX: (405) 271-3120</td>
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<td>(405) 271-4271; FAX: (405) 271-2700</td>
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<td>(405) 271-6531; FAX: (405) 271-3794</td>
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<td>(405) 271-4441; FAX: (405) 271-4525</td>
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<td>(405) 271-2406; FAX: (405) 271-2418</td>
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<td>(405) 271-2503; FAX: (405) 271-3032</td>
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<td>(405) 271-2428; FAX: (405) 271-7341</td>
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<td>(405) 271-6598; FAX: (405) 271-3826</td>
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<td>College of Public Health</td>
<td>Office of Student Services &amp; Academic Affairs</td>
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<td>P. O. Box 26901; CHB Room 141</td>
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<td>(405) 271-2308</td>
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</table>
# Admission, Enrollment and Graduation

## Office of Admissions
Buchanan Hall, Room 127  
Norman, OK 73019-4076  
Phone: (405) 325-2252  
FAX: (405) 325-7124

## Office of Registration
Buchanan Hall, Room 230  
Norman, OK 73019-4076  
Phone: (405) 325-3572  
FAX: (405) 325-7492

## Office of Academic Records
Buchanan Hall, Room 330  
Norman, OK 73019-4076  
Phone: (405) 325-4147  
FAX: (405) 325-7047

e-mail: admrec@ouwww.ou.edu  
Internet: http://www.ou.edu/admrec/

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## Admissions

### Undergraduate Admission

The admissions process at the University of Oklahoma seeks to identify applicants who will successfully complete a collegiate academic program and contribute to the diverse intellectual, cultural and social environment of the University. The University of Oklahoma welcomes inquiries regarding admission requirements and application procedures. The Office of Prospective Student Services will assist prospective undergraduate students—both freshmen and transfer—with the admission process by providing information on admission requirements, financial aid, scholarship opportunities, housing and student life. This office also serves as a visitor information center and provides tours of the campus to prospective students, their families and other University guests.

The Office of Prospective Student Services-Tulsa coordinates high school and transfer student services in Tulsa and other northeastern Oklahoma communities. Like its Norman campus counterpart, the Tulsa office provides students who are interested in any of the University’s academic programs with information on admission, housing, enrollment, financial aid and scholarships. This office also serves as a liaison with all OU campuses to arrange campus tours and departmental appointments for prospective students and their families.

### Deadlines for Application

Undergraduate, U.S. citizens and permanent residents should submit applications as early as possible, but applications must be received by the Office of Admissions no later than:
- **June 1** for a fall semester;
- **November 1** for a spring semester; and
- **April 1** for a summer term.

**International Students** applying for undergraduate admission must observe the following application and credentials deadlines:
- **April 1** for a fall semester;
- **September 1** for a spring semester;
- **February 1** for a summer term.

Applications for international students are processed by the Office of Admissions. Assistance after admission is provided by International Student Services. International students are considered to be those applicants who require a temporary, non-immigrant United States visa or immigration status. Students who have established permanent resident status in the United States are not considered international students.
Credentials

To be considered for admission, applicants must submit official and complete academic credentials.

Applicants may not disregard any part of their educational history, and failure to report all institutions previously attended will be cause for cancellation of the admissions process or for dismissal. All credentials submitted for admission to the University of Oklahoma become the property of the University and will not be returned or released.

Application Fee

All applicants to the University of Oklahoma must pay a non-refundable application-processing fee. Checks should be made payable to the University of Oklahoma and mailed to the Office of Admissions. Checks from international applicants must be in US dollars and clear through a United States bank. Payment by credit card is also an option.

Resident Status

All applicants are classified as resident or nonresident for purposes of admission and tuition based on information provided on the application for admission. Applicants may be required to submit evidence to substantiate their claim to resident classification.

A uniform policy concerning resident status exists for all state-supported institutions of higher education in Oklahoma. Copies of this policy are available from the Office of Admissions or on the Web at www.ou.edu/admrec/residency.htm.

Questions concerning resident status should be directed to the Office of Admissions, (405) 325-2252.

English Proficiency

All new applicants to the University for whom English is a second language, including those holding permanent resident status, are required to present evidence of proficiency in the English language prior to admission. The intent of this policy is to insure that students for whom English is not a native language have a reasonable chance to succeed academically based on their ability to comprehend and use spoken and written English.

Undergraduate applicants may satisfy the English proficiency requirement in one of several ways:

1. The applicant can present an official Test of English as a Foreign Language (TOEFL) score of 550 or higher on the written test, or 213 or higher on the computer test, that will be no more than two years old by the time the applicant begins studies at the University of Oklahoma.

2. The applicant can present an official International English Language Testing System (IELTS) score of 6.5 or higher.

3. A direct high school transcript may satisfy this requirement by successfully completing the high school core requirements in a secondary school in the United States, or in another country where English is the native language and the language of instruction.

4. Applicants seeking admission by transfer may satisfy this requirement by presenting a minimum of 24 semester hours of successfully completed college-level coursework from an accredited United States college or university, or an acceptable institution in a country where English is the native language and the language of instruction.

5. An applicant can present a TOEFL score between 500 and 549 on the written test or 173 to 210 on the computer test and subsequently and immediately prior to admission successfully complete a minimum of 12 weeks of study at an approved English language center or program operated by an institution of higher learning or private school approved by the Oklahoma State Regents for Higher Education.

The University offers a Center for English as a Second Language (CESL) for students who are otherwise admissible to the University, but do not meet the English proficiency requirement. CESL also offers English language classes for individuals who do not have plans to enter the University. For further information, call or write:

The Center for English as a Second Language
College of Continuing Education
1700 Asp Avenue
Norman, OK 73072-6400 USA
(405) 325-6602, or 1-800-522-0772, ext. 6602
FAX: (405) 325-0860

Admission of Freshmen

HOW TO APPLY

1. Request a freshman application packet, which includes applications for admission, housing and scholarships, from the Office of Prospective Student Services, 550 Parrington Oval, Room L-1, Norman, OK 73019-3032, (405) 325-2151 or 1-800-234-6868, or visit our web site at http://www.ou.edu/admrec/admissions.htm.

2. Submit application materials including the following:
   a) a completed application form.
   b) an official copy of your high school transcript showing at least six semesters of work completed, grade point average (on an unweighted 4.0 scale), and rank in class.
   c) an official copy of ACT or SAT scores. Test scores may be posted on the official high school transcript or sent directly from the testing agency.

3. A nonrefundable application fee is required of all new applicants. The application fee can be paid by check, money order made payable to the University of Oklahoma, or credit card.

4. Submit all application materials to the Office of Admissions, University of Oklahoma, 1000 Asp Ave., Norman, OK 73019-4076.

WHEN TO APPLY

Prospective students are encouraged to apply as soon as possible after the completion of the junior year in high school in order to maximize opportunities for housing, financial aid, scholarships and early enrollment.

CRITERIA FOR ADMISSION OF FRESHMEN

To be admitted to the University of Oklahoma, an applicant must: graduate from an appropriately accredited high school, or earn a General Education Development (GED) certificate; complete a specified curriculum of high school courses; and achieve certain performance standards set by the Oklahoma State Regents for Higher Education.

All admission requirements are subject to change by the University of Oklahoma with the approval of the Oklahoma State Regents for Higher Education, when it is determined to be in the best interest of the University and its students to do so. If it becomes necessary to limit enrollment, preference will be given to residents of Oklahoma.

CURRICULAR REQUIREMENTS

Because success in college is enhanced by solid academic preparation in high school, completion of the following courses in high school is required before entering the University:

- English—four units: Grammar, composition and literature only
- College Preparatory Mathematics—three units: Algebra I, algebra II, geometry, trigonometry, math analysis, calculus, or AP statistics.
- Laboratory Science—two units: Does not include general science with or without a lab. One year of Principles of Technology may substitute for one of the lab science courses, provided that the student also completes a traditional laboratory science course.
- History—two units: One unit must be American history.
- Citizenship Skills—one unit: Economics, geography, government, or non-western culture.
- Additional Subjects—three units: from any of the subjects previously listed, computer science, or foreign language.
PERFORMANCE REQUIREMENTS FOR AUTOMATIC ADMISSION¹

<table>
<thead>
<tr>
<th>RESIDENT</th>
<th>NON-RESIDENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT score of 24 or SAT score of 1090</td>
<td>ACT score of 26 or SAT score of 1170</td>
</tr>
<tr>
<td>OR Unweighted cumulative GPA of at least a 3.00 (on a 4.00 scale)</td>
<td>OR Unweighted cumulative GPA of at least a 3.50 (on a 4.00 scale)</td>
</tr>
<tr>
<td>AND Rank in the top 25% of your high school graduating class</td>
<td>AND Rank in the top 25% of your high school graduating class</td>
</tr>
</tbody>
</table>

PERFORMANCE REQUIREMENTS FOR THE WAIT LIST¹

Applicants who do not meet the requirements listed above, but do meet the requirements listed below, will be placed on a wait list and notified of this status. Applicants on the wait list will be admitted on a space available basis, with preference given to the most academically qualified applicants in the pool.

<table>
<thead>
<tr>
<th>RESIDENT</th>
<th>NON-RESIDENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unweighted cumulative GPA of at least a 3.00 (on a 4.00 scale)</td>
<td>ACT score of 24 or SAT score of 1090</td>
</tr>
<tr>
<td>AND Rank in the top 30% of your high school graduating class</td>
<td>OR Unweighted cumulative GPA of at least a 3.00 (on a 4.00 scale)</td>
</tr>
<tr>
<td>OR A cumulative GPA of at least a 3.00 on the State Regents’ required high school core curriculum²</td>
<td>AND Rank in the top 30% of your high school graduating class</td>
</tr>
<tr>
<td>AND ACT score of 22 or SAT score of 1020</td>
<td>OR A cumulative GPA of at least a 3.00 on the State Regents’ required high school core curriculum²</td>
</tr>
<tr>
<td></td>
<td>AND ACT score of 22 or SAT score of 1020</td>
</tr>
</tbody>
</table>

¹Home-educated applicants or graduates from unaccredited high schools must quality for admission by test score. In most cases, a GED recipient’s high school class must have graduated by the desired matriculation date.

²This grade point average is computed on a 4.00 scale with a standard weighting (1.0) given only to college-bound Advanced Placement courses and International Baccalaureate high level courses. Applicants qualifying for the wait list based on core admission requirements may be denied early, rather than held on the wait list indefinitely, if applicants and admission numbers indicate that there will be no space available for these applicants in the freshman class.

The University of Oklahoma, with the approval of the Oklahoma State Regents for Higher Education, may alter admission requirements at any time, when it is in the best interest of the University and our students to do so.

ADMISSION FROM UNACREDITED HIGH SCHOOLS OR HOME STUDY

A prospective student who is a graduate of a high school that is not accredited by a recognized accrediting agency or has been home schooled is eligible for admission under the following conditions:

1. The applicant must have taken the ACT or SAT and achieved a score equal to or greater than the requisite composite score defined for freshman admission. These scores are provided annually by the Oklahoma State Regents for High Education.

2. The applicant’s high school class must have graduated.

3. The applicant must satisfy the high school curricular requirements as certified by the high school or, in the case of home study, the parent.

ADULT ADMISSION

Applicants who are 21 years of age or older or on active military duty, who do not meet the stated performance and/or curricular requirements for admission to the University may be considered under the Adult Admission category. Careful attention will be given to an applicant’s written comments concerning background and educational goals, personal interviews, as well as letters of recommendation from school counselors, teachers, principals, employers or supervisors attesting to the applicant’s motivation and potential for academic success. An applicant’s academic record will also be reviewed for completion of the high school curricular requirements. Students admitted under the Adult Admission category must demonstrate proficiency in the curricular area the student desires to pursue.

Prospective students should contact the Office of Admissions at (405) 325-2252 for further information.

EARLY ENTRY (CONCURRENT ENROLLMENT)

Early Entry is a program at the University designed to allow high school juniors and seniors with exceptional abilities to enroll in college courses on a limited basis. High school students may thus accumulate college credits prior to completing high school.

To be eligible for the Early Entry Program, students must be enrolled in an accredited high school and meet the following requirements:

1. You must have achieved junior or senior standing and be eligible to complete requirements for graduation from high school no later than the spring of your senior year, as attested by your high school principal.

2. Seniors must meet regular freshman admission requirements based on high school grade point average and class rank, or test scores.

3. Juniors must score in the 83rd percentile on the ACT/SAT or have a 3.5 GPA on an unweighted 4.0 scale.

A student receiving high school level instruction at home or from an unaccredited high school must:

1. Be at least 17 years of age or older and score in the 70th percentile on the ACT (using Oklahoma norms) or the SAT (using national norms); or

2. Be 16 years of age and have achieved a composite score in the 83rd percentile on the ACT (using Oklahoma norms) or the SAT (using national norms).

Interested students must submit an application for admission, an Early Entry Recommendation form signed by the high school principal, a counselor, and parent, a high school transcript, and ACT or SAT scores.

Once admitted, a student’s combined enrollment in high school and at the University of Oklahoma may not exceed 19 credit hours during a fall or spring term. For this purpose, the University will assume that any high school course enrollment is the equivalent of three credit hours. Students may enroll in a maximum of nine credit hours during a summer term without being concurrently enrolled in high school classes during the summer. Students who wish to exceed this credit hour limit may petition the Dean of University College for permission to do so, up to a maximum of 24 semester hours in a regular semester.

The completion of high school curricular requirements is not mandatory for Early Entry students for admission purposes. However, students may not enroll in college-level courses in a curricular area until the high school curricular requirement in that discipline has been satisfied through coursework or assessment. Early Entry students may not enroll in zero-level courses designed to remove high school curricular deficiencies.

Following high school graduation, Early Entry students may continue enrollment at the University of Oklahoma or transfer to another institution in the state system, provided that they have maintained a grade point average of 2.00 on a 4.0 scale at the University and meet the entrance requirements of the receiving institution, including high school curricular requirements.

Questions on the Early Entry Program should be referred to the Office of Prospective Student Services.

OPPORTUNITY ADMISSION

Students who have not graduated from high school, regardless of age, whose composite score on the ACT (using Oklahoma norms) or combined verbal and mathematics score on the SAT (using national norms) places them in the 99th percentile of all students tested, may apply for admission to the University of Oklahoma. Admission will be determined based on test scores and an evaluation of the student’s level of maturity and ability to function intellectually and socially in the adult college environment.
Admission of Transfer Students

Applicants are considered transfer students if they have attempted more than six semester hours of (college-level) work at another accredited college or university since graduation from high school. Students who complete college-level work while still in high school are not considered transfer students.

Transfer admission requirements are subject to change by the University of Oklahoma with the approval of the Oklahoma State Regents for Higher Education, when it is determined to be in the best interest of the University and its students to do so. If it becomes necessary to limit enrollment, preference will be given to residents of Oklahoma.

TRANSFER ADMISSION CRITERIA

Admission of transfer students is based on the following performance requirements and preparatory coursework in high school.

**CURRICULAR REQUIREMENTS FOR ADMISSION OF TRANSFER STUDENTS**

- English—four units: Grammar, composition and literature only
- College Preparatory Mathematics—three units: Algebra I, algebra II, geometry, trigonometry, math analysis, calculus, or AP statistics.
- Laboratory Science—two units: Does not include general science with or without a lab. One year of Principles of Technology may substitute for one of the lab science courses; provided that the student also completes a traditional laboratory science course.
- History—two units: One unit must be American history.
- Citizenship Skills—one unit: Economics, geography, government or non-western culture.
- Additional Subjects—three units: from any of the subjects previously listed, computer science, or foreign language.

* If you have not completed the courses listed above in high school, you should do so before transferring to the University. With the exception of U.S. history and U.S. government, completion of remedial or college-level coursework in any of the subject areas in which a deficiency exists will also satisfy this requirement. A remedial mathematics course must be the equivalent of high school Algebra II. Remedial or precollege-level courses cannot be used to fulfill degree requirements.

**PERFORMANCE REQUIREMENTS FOR ADMISSION OF TRANSFER STUDENTS:**

<table>
<thead>
<tr>
<th>Number of semester hours transferred</th>
<th>GPA Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>7–59 semester hours attempted</td>
<td>2.50 grade point average</td>
</tr>
<tr>
<td>60 or more semester hours attempted</td>
<td>2.00 grade point average</td>
</tr>
</tbody>
</table>

1. The Oklahoma State Regents for Higher Education define transfer students as "any undergraduate student with greater than six attempted credit hours excluding remedial or pre-college work and excluding credit hours accumulated by concurrently enrolled high school students."
2. Transfer students with less than 24 semester hours attempted must also meet performance requirements for first-time entering freshmen.
3. Non-resident engineering majors must have at least a 3.00 GPA.

APPLICATION DEADLINES

Your application must be RECEIVED by the Office of Admissions by the dates below. However, you are encouraged to apply as early as possible to maximize opportunities for housing and scholarships, financial aid and early enrollment.

- June 1 – Fall semester
- Nov. 1 – Spring semester
- April 1 – Summer semester

Transfer students who do not meet performance and/or curricular requirements are encouraged to contact the Office of Admissions for advice and counseling on alternative admission opportunities.

**HOW TO APPLY**

1. Obtain a transfer student application packet, which includes applications for admission, housing and scholarships, from the Office of Prospective Student Services, or visit our web site at www.ou.edu/admrec/admissions.htm.
2. Submit an official high school transcript and official transcripts from each college or university attended. Students are not at liberty to disregard any part of their previous educational history when applying for admission.
3. Submit the nonrefundable application-processing fee. The fee should be paid by check or money order made payable to the University of Oklahoma, or credit card.
4. ACT or SAT scores are required of any transfer student with less than 12 semester hours of college work.

**WHEN TO APPLY**

Although there are specific application deadlines for each term, transfer students are encouraged to apply early in the semester prior to the term they wish to enter the University. Early admission allows students to maximize their opportunities for housing, financial aid, scholarships, and early enrollment. Admission decisions can often be made with the current term’s grades outstanding.

**TRANSCRIPT EVALUATION**

Once an applicant has been admitted to the University, the Office of Admissions performs an evaluation of any transfer credit. Students who are admitted with coursework in progress should submit a schedule of courses in progress, and arrange to have a final, official transcript sent to the Office of Admissions after completion of their last term. Once a complete and official transcript is received, the initial evaluation will be updated. Students will consult with an academic adviser at the time of enrollment to determine how their transfer work will apply toward a degree at the University of Oklahoma.

**PROSPECTIVE STUDENT EVALUATIONS**

Transfer students who are undecided about attending OU can request a prospective student evaluation to help with the decision-making process. Potential applicants should submit or present in person the same official academic credentials required of transfer students applying for admission, along with the following information: desired term of matriculation at the University of Oklahoma; intended major; a complete list of collegiate institutions attended; mailing address, home and work telephone numbers, and e-mail address.

The information should be submitted to the Office Admissions. This office will perform an initial evaluation of all transfer credit and then an academic adviser will determine how the transfer work will apply toward a degree at OU. Prospective students should contact the Office of Admissions at (405) 325-2252 for further information concerning this service.

**TRANSFER DAYS**

Transfer Days is a yearly event, normally held in early spring, that provides an opportunity for transfer students who have already been admitted to the University for the upcoming summer or fall term to visit campus, be advised by academic counselors, and pre-enroll for the fall and/or summer terms. In addition to academic counselors, representatives from the University are also on hand to answer questions about housing, financial aid, scholarships and student activities. Other pre-enrollment periods for summer and fall terms occur throughout the late spring and summer months, so transfer students who are unable to attend Transfer Days will have ample opportunity to pre-enroll once they are admitted to the University. For further information, contact the Office of Prospective Student Services (405) 325-2151 or 1-800-234-6868.
TRANSFER CREDIT REGULATIONS

The amount of credit granted to applicants for admission as transfer students depends upon the nature and quality of the applicant’s previous work, evaluated according to the academic requirements of the University, and the following provisions:

1. Transfer credit earned by students at institutions accredited by a regional accrediting agency (such as the North Central Association of Colleges and Schools) or the Oklahoma State Regents for Higher Education will be accepted for transfer at face value. Credits earned at institutions accredited by a national accrediting agency recognized by the U.S. Department of Education will be reviewed on a course-by-course basis and accepted for transfer if the course is determined to be substantially equivalent to a University of Oklahoma course or courses.

2. Lower-division courses transferred to the University of Oklahoma will generally be used to meet lower-division degree requirements. In the event that a lower-division transfer course is used as a substitution for an upper-division requirement at the University, a student may be required to complete additional upper-division hours for graduation.

3. A minimum of 60 semester hours must be earned in a senior college for a baccalaureate degree.

4. Transfer students who enter the University with an Associate of Arts or an Associate of Science from an institution in the Oklahoma State System of Higher Education are considered to have met the lower-division (1000- and 2000-level) course requirements of the University’s General Education core curriculum. However, these students are still required to complete any lower-division coursework that is required beyond the University’s lower-division General Education course requirements, as well as the upper-division (including General Education) course requirements for a degree.

5. The dean’s office of each degree-recommending college has ultimate responsibility for determining how transfer credit will apply to a specific degree program. Since graduation requirements vary from college to college, a re-evaluation of transfer credit is required if a student changes degree colleges.

6. A transfer applicant under disciplinary probation or suspension will not be considered for admission until the terms of the probation or suspension have been met. Students must meet appropriate application deadlines for the term for which they are reapplying for admission.

7. Grades for courses taken at foreign institutions are used in determining admissibility to the University. However, once a student is admitted, transfer grades are changed to neutral (S or U) grades which do not affect the grade point average. The only exception to this policy is for foreign institutions that hold accreditation through a United States regional accrediting association.

SECOND UNDERGRADUATE DEGREE APPLICANTS

Students may apply for a second undergraduate degree at the University of Oklahoma, but are encouraged to investigate other options available through the Graduate College and other non-degree classifications before doing so. In addition to specific degree programs, the Graduate College offers teacher certification programs and an unclassified (non-degree) option, which allows students to take graduate and undergraduate courses before selecting a major field of graduate study.

Applicants for a second undergraduate degree must apply to a specific major and are not eligible for a second undergraduate degree in the major of their first degree.

General University policy, as well as specific college and school policies may restrict an applicant from applying for a second undergraduate degree in certain majors. Applicants should contact the Office of Admissions or the appropriate University degree-recommending college for further information on the pursuit of a second undergraduate degree.

APPLICANTS FOR READMISSION

Students must file an application for readmission if it has been more than one semester and a summer term since their last attendance at the University, or if they have completed a degree or were suspended after their last enrollment at OU. Application deadlines do apply to former students. Students who only enroll for summer terms (summer to summer students) do not need to reapply unless they graduate or break their continuous enrollment for a summer term. Students who have attended another college or university since last attending the University must file official transcripts from each institution attended. A student’s eligibility for readmission will be determined after an evaluation of all transferred work has been made. Academic credit awarded by any division of the University of Oklahoma is considered resident credit, with the exception of credit completed by correspondence or advanced standing examination.

SUSPENDED STUDENTS

A student who has been suspended once for academic reasons from the University or any other institution in the state system of higher education may apply for readmission to the University for any semester or summer term beyond the semester in which he or she was suspended. Such readmission is not automatic but is decided on an individual basis. The student must submit an application for readmission, a letter of appeal, and all required transcripts to the Admissions Office by June 1 for a fall semester, November 1 for a spring semester, and April 1 for a summer session. The letter of appeal should include an explanation of the student’s previous academic record, information about the student’s activities since suspension, and reasons why an exception to the requirements for admission to the University should be made.

A student who has been suspended twice from the University is not eligible for consideration for readmission until that student has attended another accredited college or university and raised his/her grade point average to the University’s retention standards.

Other Applicants

SPECIAL STUDENTS

Any person who is admissible to the University of Oklahoma and who wishes to take undergraduate courses without the intention of pursuing a degree may do so under the classification of Special Student.

Undergraduate Special Students must meet regular admission requirements to the University and are limited to nine semester hours of enrollment in this classification, unless an exception to this enrollment maximum is made by the President of the University or his or her designate. Undergraduate Special Students are not required to submit academic credentials. A person who is admitted as a Special Student has no privileges beyond those which are available to all students. A Special Student who wishes to enroll in a course with specific prerequisites must meet those prerequisites in the same manner as any other student.

Special Students who later elect to enter a degree program will be expected to meet all of the regular requirements for that particular degree program. Special Students are urged to apply for regular (degree-seeking) admission as soon as a decision to pursue a degree has been made.

If a Special Student applies for admission to an undergraduate degree program, the work he/she has taken as a Special Student will be evaluated in the same manner as any other work submitted for evaluation. The particular degree-recommending college involved will determine how this work will apply toward the degree sought.

Work taken as a post-baccalaureate Special Student will not be counted toward a graduate degree unless the student was admissible to the Graduate College at the time such work was taken and the credit is approved by the appropriate department or program unit and the graduate dean.

Post-baccalaureate Special Students must receive permission of the instructor, department or program unit and the graduate dean to enroll in 5000- and 6000-level courses, on-campus, or through Advanced Programs or other off-campus sites. As a general rule, permission will not be granted those students who are not eligible for admission in full standing to the Graduate College. Post-baccalaureate Special Students are not admitted to Graduate College and, thus, are not considered graduate students.

Post-baccalaureate Special Students may accumulate no more than 24 hours of credit at the University of Oklahoma, without permission of the graduate dean. A student needing to exceed this limit should submit a
petition to the graduate dean outlining why he/she needs to take more than 24 hours as a Special Student.

A post-baccalaureate Special Student is required to maintain a minimum 2.50 grade point average on all coursework attempted and a minimum of 2.00 every semester. Should a Special Student’s grade point average fall below a 2.00 for any semester, the student will not be allowed to continue to enroll as a Special Student. If the overall grade point average maintained as a Special Student drops below a 2.50, the student will have one semester to raise the overall average to 2.50 in order to continue to enroll as a Special Student.

A post-baccalaureate Special Student whose cumulative grade point average in courses taken as a Special Student drops below a 2.50 and who would require more than a total of 24 hours in this status to raise that overall grade point average to 2.50 will not be allowed to continue to enroll as a Special Student.

Applicants who enroll as Special Students in order to correct grade point average deficiencies for admission to the Graduate College may use the record of their performance as a Special Student as supplementary material to their graduate application, provided that the student has completed 12 semester hours of 3000/4000-level courses with a grade point average of at least 3.25. A grade of B or better must be earned in each course.

Graduate Admission

Inquiries related to graduate admission, including requests for an application and informational material, should be directed to the Graduate College, University of Oklahoma, 1000 Asp Avenue, Norman, OK 73019-4075, (405) 325-3811; FAX (405) 325-5346; e-mail: gradinfo@ou.edu.

Completed applications and official transcripts should be submitted to the Office of Admissions. Although the Graduate College does not require the Graduate Record Examination (GRE), the college endorses the use of the GRE as one useful measure of a student’s potential for success in graduate school. Many academic programs do require the GRE or other supporting materials, such as GMAT scores and/or letters of recommendation, before considering applications for admission. Students seeking admission in full standing must meet the admission requirements of the department or program unit offering the desired degree program, as well as the requirements established by the Graduate College. Students should consult with the graduate liaison in the department to which they are seeking admission concerning department or program requirements. Information about graduate assistantships is also available from the departments.

Applications cannot be considered until all required materials have been submitted. The final decision on admission to the Graduate College is made by the graduate dean. To be eligible for enrollment, the student must have been admitted to the University and to the Graduate College before the registration period ends for any given semester.

Applicants seeking admission to graduate programs offered on the Norman campus should observe the following deadlines for submission of completed applications. (International student deadlines in parentheses.)

- Fall Semester—June 1 (April 1)
- Spring Semester—November 1 (September 1)
- Summer Session—April 1 (February 1)

Certain graduate programs have earlier deadlines. All applicants are strongly urged to contact the programs to which they are seeking admission for the application deadlines of those programs.

An application-processing fee must accompany the application of all students who seek admission or readmission to the University.

The Office of Admissions has charge of all matters pertaining to general admission to the University. Admission and enrollment in the Graduate College is governed by the graduate dean. Except for those in unclassified status, the student must be recommended for admission by a department or program. All admissions to the Graduate College require that the student hold a baccalaureate degree or equivalent from an accredited college or university. However, undergraduates in their final semester at accredited colleges and universities may apply for admission to the Graduate College.

A prospective student must register for courses at the University of Oklahoma for the term of admission to retain active status. The student is subject to the regulations applicable during his/her first term of enrollment so long as continuous enrollments are maintained.

ADMISSION OF UNIVERSITY OF OKLAHOMA GRADUATING SENIORS

All seniors graduating from the University of Oklahoma who wish to apply for admission to graduate programs should report to the Office of Admissions, Room 127, Buchanan Hall, during the final semester of their senior year and complete an application for Graduating Seniors. Applicants’ academic records will be referred to the Graduate College and to their prospective major departments for consideration.

If admitted, the graduating senior must inform the Graduate College if any requirements for the undergraduate degree have not been completed. If any requirements are not completed, the admission will be canceled and the student must reapply.

A college senior who qualifies for conditional admission to the Graduate College due to low grades will not receive a final decision on conditional admission until the complete undergraduate transcript has been reviewed.

ADMISSION AS A VISITOR

Graduate students in good academic standing at other accredited institutions are welcome to take courses at the University of Oklahoma as a Visitor. In this status, a graduate student has all the rights and privileges of other graduate students except he or she is not pursuing a graduate degree at the University of Oklahoma. Should the Visitor decide to pursue a graduate degree here, he or she would be required to file another application and submit official copies of all transcripts. To be admitted as a Visitor, a prospective graduate student must submit the following information to the Office of Admissions:

1. A completed application form and application-processing fee.
2. A letter of good standing from the dean of the Graduate College of the student’s home institution.

READMISSION TO THE GRADUATE COLLEGE

Students must file an application for readmission if it has been more than one semester and a summer term since their last attendance at the University. Students who only enroll for summer terms (summer to summer students) do not need to reapply unless they graduate or break their continuous enrollment for a summer term. Students who have attended another college or university since last attending the University must submit official transcripts from each institution attended to the University of Oklahoma’s Office of Admissions. A student’s eligibility for readmission will be determined after an evaluation of all transferred work is made. Readmitted students will be subject to the regulations in effect at the time of readmission.

ENGLISH PROFICIENCY

All new applicants to the Graduate College for whom English is a second language (including those holding permanent resident status) are required to present evidence of proficiency in the English language prior to admission.

The intent of this policy is to insure that students for whom English is not a native language and the language of instruction may be considered for conditional admission by the graduate dean.

2. The applicant can present an official Test of English as a Foreign Language (TOEFL) score of at least 550 on the written test, or 213 or higher on the computer test, that will be no more than two years old at the time the applicant begins studies at the University of Oklahoma. Some graduate programs require a score higher than 550. (Applicants who have been recommended for admission to a degree program, and who present a TOEFL score of at least 500 and show exceptional academic promise, may be considered for conditional admission by the graduate dean).

3. The applicant can present a bachelor’s degree or higher from an accredited college or university in the United States or from a country in which English is the native language and the language of instruction.
4. The applicant may present 24 semester hours of successfully completed college-level coursework from an accredited college or university in the United States or from a country in which English is the native language and the language of instruction.

5. An applicant can present a TOEFL score between 500 and 549 on the written test or 173 to 210 on the computer test and immediately prior to admission successfully complete a minimum of 12 weeks of study at an approved English language center or program operated by an institution of higher learning or private school approved by the Oklahoma State Regents for Higher Education. However, this will not satisfy the English proficiency requirement for those graduate programs that require a TOEFL score higher than 550.

The University offers a Center for English as a Second Language (CESL) for students who are otherwise admissible to the University but do not meet the English proficiency requirement. CESL also offers English language classes for individuals who do not have plans to enter the University. For further information, call or write:
The Center for English as a Second Language
College of Continuing Education
1700 Asp Avenue, Norman, OK 73072-6400
(405) 325-6602, or 1-800-522-0772 ext. 6602.

ADDITIONAL INFORMATION FOR GRADUATE APPLICANTS

For further information concerning graduate admission, policies and programs, consult the Graduate College, http://gradweb.ou.edu.

Credit for Extra-Institutional Learning

The University of Oklahoma encourages capable students to seek college credit for knowledge they may have acquired in a variety of ways. Complete information on the ways students may establish credit for extra-institutional learning at the University of Oklahoma is found in the brochure Credit by Advanced Standing at the University of Oklahoma. This brochure is available through the Office of Prospective Student Services, the Office of Admissions, and is also available on the Web at www.ou.edu/admrec/advstand.html.

ADVANCED STANDING EXAMINATIONS

University of Oklahoma students who are enrolled (or pre-enrolled) and former students who are eligible to re-enroll may take an advanced standing examination for undergraduate credit, provided that they have not been enrolled in the course (or its equivalent) at an institution of college rank, and received a grade other than W. If a student is enrolled in a course in which he or she wishes to establish credit by advanced standing examination, the course must be dropped before any grade other than W is awarded.

A student enrolled (or pre-enrolled) in a course may earn credit in that course by advanced standing examination up to the end of the second week of class in a regular semester or the first week of a summer term. If a student earns credit in the course by examination, the student may drop the course enrollment with no fee assessment, provided the course is dropped within the first two weeks of class in a regular semester or the first week of class in a summer term. Beginning with the third week of class in a regular semester, or the second week of a summer term, registration fees will be refunded in accordance with the Oklahoma State Regents’ refund schedule.

The amount of advanced standing credit that may be awarded is subject to the graduation requirements of the University and the degree-recommending college in which a student will earn a degree. The dean of the student’s degree-recommending college at the University will determine how this credit applies toward a degree.

Advanced standing credit will be placed on a student’s permanent academic record only after it is validated by the successful completion of 12 or more semester hours of academic work at the University of Oklahoma. The neutral grade of satisfactory (S) will be assigned to credit earned through national or University of Oklahoma departmental advanced standing examinations. A grade of satisfactory (S) represents work of C quality or better.

Should a student fail an advanced standing examination, no grade will be recorded. However, the student is not eligible to retake the same examination and receive credit if the exam is passed. Students should consult the Office of Admissions or the Office of Independent Study to discuss other test options.

Credit by examination is limited to equivalent courses offered in residence at the University of Oklahoma, and the amount of credit earned by examination may not exceed that of the same course offered at the University of Oklahoma.

The regulations governing advanced standing examination credit that are mentioned above, apply to all of the advanced standing options available at the University.

Advanced standing examinations are under the general supervision of the University Registrar (and the chairperson of the department in the case of University departmental examinations).

The Academic Regulations Committee is responsible for hearing any appeals in hardship cases of students who do not meet the conditions and regulations governing advanced standing examinations.

Advanced standing credit may be earned through a variety of test options which include:

1. University of Oklahoma departmental advanced standing examinations. The University of Oklahoma offers a number of departmental advanced standing examinations. The fee for each examination is $10 per credit hour. Interested students should consult with an academic adviser during enrollment or with the departmental office responsible for offering the course.

Some of the more commonly taken examinations are administered by the Department of Independent Study. For those examinations, students should pick up the application forms at the Department of Independent Study, 1600 S. Jenkins, Room 101, Norman, OK 73072-6507, phone (405) 325-1921.

Other examinations are administered by the various departments and are given at the convenience of the department concerned. For information about requirements and times at which examinations are offered, contact the department office. Students may pick up applications for the examinations not administered by the Department of Independent Study at the Office of Admissions, 1000 Asp Avenue, Room 127, Norman, OK 73019-4076, phone (405) 325-2252.

2. The Advanced Placement Program (APP) offered by the College Entrance Examination Board (CEEB).

This program allows high school students to take examinations for credit at the college level. High school counselors will assist students with testing arrangements.

3. The College Level Examination Program (CLEP) offered by the College Entrance Examination Board (CEEB).

The University of Oklahoma is a CLEP testing center. The University awards credit for the CLEP examinations listed in the brochure “Credit by Advanced Standing at the University of Oklahoma” (also see www.ou.edu/admrec/advstand.html).

Inquiries about OU’s testing should be addressed to the Office of Independent Study, 1600 S. Jenkins, Room 101, Norman, OK 73072-6507, phone (405) 325-1921.

4. Excelsior College Examinations

The University of Oklahoma awards credit for a few Excelsior College Examinations. Please refer to the brochure “Credit by Advanced Standing at the University of Oklahoma” for a list of examinations that are acceptable for credit.

5. International Baccalaureate

Credit may be awarded to students who have taken higher level courses in the International Baccalaureate Program and who have scored at least a four (on a seven-point scale) on the higher-level course examinations. Such credit is awarded on a course-by-course basis as recommended by the appropriate University of Oklahoma department.

Score reports for any of the advanced standing examinations listed above should be submitted to the Office of Admissions, University of Oklahoma, 1000 Asp Avenue, Norman, OK 73019-4076.
OTHER TYPES OF ADVANCED STANDING CREDIT

Students may establish advanced standing credit at the University of Oklahoma by a variety of avenues other than examination.

Military Service Credit

The University awards credit for educational experiences during military service according to the recommendations of the American Council on Education as published in the Guide to the Evaluation of Military Experiences in the Armed Services. The policies governing the acceptance of credit awarded for military experience toward satisfying degree requirements vary among the degree-recommending colleges of the University. Students should contact their college academic advisement office for specific information on the applicability of this type of credit toward degree requirements.

The grade of S (satisfactory) is assigned to all credit awarded for military training.

Students may submit one or more of the following military records to verify successful completion of military training. These documents should be submitted to the Office of Admissions for review.

1. Army personnel and veterans who entered active duty or reserve personnel starting on or after October 1, 1981 — submit an Army/American Council on Education Registry Transcript (AARTS). AARTS transcripts can be ordered by contacting the AARTS Office, Ft. Leavenworth, KS 66027-5010. You may also call 1-866-297-4427 or visit their website: https://aarts.leavenworth.army.mil/.

2. Army veterans who entered active duty or reserve prior to October 1, 1981 — submit a DD Form 214, Certificate of Release or Discharge from Active Duty, and certificates of completion for all service schools attended.

3. Navy and Marine Corps (enlisted and officer) personnel who are currently on active duty or reserve, and those who separated or retired from active duty on or after October 1, 1999 — submit a Sailor/Marine/ Ace Registry Transcript (SMART). SMART transcripts can be ordered through your local Navy College Office or Marine Corps Education Center. For further information, contact SMART Operations Center NETPDTCS N2, 6490 Saufley Field Road, Pensacola, FL 32504-5204; phone (toll free) 1-877-253-7122. You may also visit their website: http://www.navycollege.navy.mil.

4. Navy and Marine veterans who entered active duty or reserve prior to October 1, 1999 — submit a DD Form 214, Certificate of Release or Discharge from Active Duty, and certificates of completion for all service schools attended.

5. BOOST Transcripts can be obtained by contacting: Broadened Opportunity for Officer Selection and Training, 197 Elliot Avenue, Newport, RI 02841-1623. Commercial: (401) 841-1623; DSN: 948-7948.

6. Air Force personnel and veterans should request an official transcript from the Community College of the Air Force for work taken as an undergraduate, or from the Air University for work taken as a graduate student. Community College of the Air Force transcripts may be ordered by sending a request in writing to: CCAF/RRR, 130 West Maxwell Blvd., Maxwell AFB, AL 36112-6613, phone number (334) 953-2794 (DSN 493-2794), you may also visit their website at: http://www.aufamilia.edu/ccaaf/. Air University transcripts may be obtained by writing to the Registrar’s Office, 50 South Turner Blvd., Maxwell AFB-Gunter Annex, AL 36118-5643.

7. DANTES — Students may also request a transcript from DANTES (Defense Activity for Non-Traditional Education Support). Many tests taken under the auspices of DANTES carry American Council on Education credit recommendations recognized by the University. Transcripts may be ordered from DANTES, The Chanucy Group International, P.O. Box 6605, Princeton, NJ 08541-6605; 1-800-257-9484.

8. USAFI (United States Armed Forces Institute). The results of tests taken under the auspices of USAFI before July 1, 1974 are available from the DANTES Program (see #7 above).

Credit for Training Programs and Other Extra-institutional Learning

The University awards credit for other extra-institutional learning based on recommendations made by the American Council on Education in its publication The National Guide to Educational Credit for Training Programs or transcripted on its Registry of Credit Recommendations (ROCR). Credit may also be awarded based on recommendation of the Board of Regents of the University of the State of New York in its publication, College Credit Recommendations: The Directory of the National Program on Non-Collegiate Sponsored Instruction. Documents reflecting credit for training programs and other extra-institutional learning must be submitted to the Office of Admissions for evaluation. The dean of the college in which a student will earn a degree at the University will determine how this credit applies toward the degree. For further information, students should contact the Office of Admissions, 1000 Asp Avenue, Room 127, Norman, OK 73019-0430, (405) 325-2252.

TRANSFER OF ADVANCED STANDING CREDIT AWARDED BY ANOTHER INSTITUTION OF HIGHER EDUCATION

Advanced standing credit posted on transcripts from institutions in the Oklahoma State System of Higher Education will transfer to the University subject to the same conditions as resident credit from these campuses.

Advanced standing credit posted on transcripts from all other institutions will be accepted by the University as long as the credit was earned through one of the advanced standing mechanisms approved by the Oklahoma State Regents for Higher Education. The dean of the college in which a student will earn a degree will determine how this credit applies toward the degree.

ENROLLMENTS AT OTHER INSTITUTIONS

Students must report any college or university work taken at other institutions while they are current students at the University of Oklahoma. Whether this work is taken while registered in classes at the University, during a summer session, or during a semester and/or summer session while students have “stopped out” of the University temporarily, students must file an official transcript with the Office of Admissions of all work undertaken. Failure to do so may result in suspension or permanent dismissal from the University.

Preenrollment Assessment and Advising

MATHEMATICS DEPARTMENT COMPAS (PLACEMENT TESTING) PROGRAM

COMPAS (Curriculum-Oriented Mathematics Placement for Academic Success) is a program of mandatory placement testing to determine the appropriate placement for entering students in all math courses through the first course in calculus (Math 1823 or 1743). Tests will be graded immediately after testing so that results are available for advisement and enrollment. Any student may take the test twice during the testing period for any semester’s placement. Once students are in a sequence of mathematics courses, placement into the next course is built into the testing and grading of each course. Information on the tests can be obtained by calling the Assessment Center.

ASSESSMENT POLICY

In compliance with state-mandated assessment of higher education, any student entering OU for the first time must be assessed. Upon entering the University, advising personnel look at ACT/SAT scores, high school GPA and/or any transfer work from another college or university. Then, based on certain criteria, students may be referred for additional assessments. Assessment results sometimes indicate the need for developmental course(s) which must be successfully completed before pursuing college-level courses. The Assessment and Learning Center determines academic skill levels in the areas of reading comprehension, English, and mathematics by using the COMPAS placement test and writing samples. The overall assessment process serves as a way to measure academic program improvements within the University, and to promote academic success among students.

Another part of the assessment process involves enrolling for mathematics courses. Any student who is required to take mathematics course(s) to fulfill his/her degree requirements, who has not successfully completed math coursework through calculus at OU or another institution, must be assessed regardless of how long he/she has attended OU. Placement testing will determine into which courses the student is eligible to enroll, based on current skill levels in mathematics.
FOREIGN LANGUAGE PLACEMENT EXAMINATIONS

Classical Languages
Placement examinations for beginning and intermediate-level Latin, Greek and Hebrew language courses are administered throughout the fall, spring and summer terms. High school students are especially encouraged to take placement examinations before they enroll in these language courses. None of these examinations award credit; they are administered only to assist students in enrollment. Students should call the Classics Department to schedule a time to take the examination.

Modern Languages
Students who have completed two or more years of high school foreign language and who wish to continue their foreign language study at the University will be placed in appropriate courses based on their scores in the Proficiency Exam. University credit may not be earned in courses for which the exit proficiency level is below the students’ proficiency test scores. Students may, if they wish, audit such courses. Students who have not completed the normal two-year high school language sequence should enroll in 1115. Those who wish to demonstrate higher proficiency should consult the placement adviser of the Department of Modern Languages, Literatures and Linguistics. Students have the right to appeal their course placement.

Placement examinations are administered during pre-enrollment periods as well as during regular enrollment periods. The examination is also given during the pre-enrollment period in the summer for new students planning to enroll in the University in the fall. Students should check with the Department of Modern Languages, Literatures, and Linguistics concerning the specific place and dates on which such examinations will be given.

SUMMER ENROLLMENT AND ORIENTATION PROGRAM FOR FRESHMEN

The University College Summer Advance Enrollment Program is the first step in orientation to the University of Oklahoma. The program is conducted each summer for incoming freshmen and college transfer students who have been admitted to University College. This visit to the Norman campus provides an opportunity to become acquainted with the services available as well as to be advised and to enroll for fall classes. Parents are encouraged to participate in the activities.

Information about the program is distributed annually to eligible newly admitted students, who then schedule appointments to participate. Under certain circumstances, new students who are unable to visit the campus may enroll by mail.

SCHOLARS SUMMER ENROLLMENT

Students accepting talent-based scholarships through the OU Scholars Program, as well as incoming National Merit and Philips Scholars, are enrolled through the OU Scholars Program office. Students and their parents spend the day at Honors House in a variety of workshops targeted to the particular needs of the academically talented student. Math and language placement tests, parent sessions, campus tours, lunch at Couch Cafeteria, as well as initial academic advisement and enrollment occur at this time. Most Scholars will be enrolled during May and June.

THE ALL-UNIVERSITY ENGLISH REQUIREMENT

English composition is the cornerstone of the general education curriculum. Because written communication is an integral part of every degree program at the University of Oklahoma, all undergraduate students are required to enroll in “Principles of English Composition”. English 1113 must be completed within the first 24 hours, and English 1213 must be completed within the first 48 hours of college credit.

VETERAN’S SERVICES

The University of Oklahoma Office of Veterans Affairs (BH 234) provides services in certifying Veterans or their dependents, Guard, Reservists and students receiving VA Vocational Rehabilitation, who are eligible for educational benefits. Counseling is available for academic, financial and personal issues. Tutorial assistance is available for veterans attending on at least a half-time basis. VA work-study positions may be available for those attending at least three-quarter time. Inquire at (405) 325-4308.

Registration

ENROLLMENT

Students should refer to the Class Schedule for specific dates, deadlines and procedures that apply to the registration process. Students may purchase copies of the Class Schedule at campus area bookstores and the Bursar’s Office, or view online at www.ou.edu/admrec/.

Generally, registration consists of advisement through the college office, enrollment in courses, and payment of tuition and fees. Advisement and enrollment may take place before classes begin; tuition can be paid following enrollment and must be paid by the date given in the University calendar included in the current Class Schedule.

In addition to the normal registration process, students enrolled at either the Norman Campus or the University of Oklahoma Health Sciences Center in Oklahoma City may cross-enroll in courses at the other campus. Students should check with the Registration Office of their home campus for more specific information on the cross-enrollment procedure.

CALENDAR

The University of Oklahoma offers courses annually in six sessions: the fall semester (late August to mid-December); the winter intersession (late December to mid-January); the spring semester (mid-January to early May); the spring intersession (early May to early June); the summer session (early June to early August); and the summer session (August).

AUDIT

Auditing is attending a class without participating in classwork or receiving credit. Enrollment as an auditor is permitted in all courses subject to the approval of the instructor in the course.

Initial enrollment in a course as an auditor may be completed only between the first day of classes and the last day permitted for late enrollment for credit in any semester or term.

A change of enrollment from audit to credit may be made, provided the change is made no later than the end of the second week of classes in a regular semester or the first week of classes in a summer term, and provided the instructor and appropriate dean approve.

A change of enrollment from credit to audit may be made during the first 10 weeks of classes in a semester or five weeks of classes in a summer term, provided the student is passing in the course at the time the change is processed, and provided the student has the approval of the instructor. A change of enrollment processed during the first 10 weeks of a semester or five weeks of a summer term requires a report of progress from the student’s instructor. A change of enrollment to audit supersedes the original enrollment for credit, and no withdrawal from the credit enrollment is posted on the student’s academic record.

An instructor may assign a final grade of W (withdrawn passing) at the end of a semester or term to a student who has not performed according to the instructor’s requirements for an auditor in that class.

Enrollment as an auditor is indicated on the student’s permanent academic record with the final mark AU (identified as Audit), subject to the same posting regulations governing credit enrollment.

FEE WAIVERS FOR AUDITING OF COURSES

Institutions of the state system are authorized to waive general enrollment and all other fees for residents of Oklahoma 65 years of age or older for auditing of academic courses, contingent upon space being available.

PASS/NO PASS OPTION

Students may elect to enroll in courses on a pass/no pass basis, but should understand that Colleges may not count pass/no pass enrollments when determining whether the student has fulfilled the requirements for a degree. Specific College limits are listed below.

Architecture — The pass/no pass option may be used only for elective credit.
Course withdrawal is allowed at the discretion of the instructor. Students withdrawing from all courses in the first two weeks of classes (first week of a summer session) receives the grade of W in each course of enrollment. W (meaning withdrawal) is a neutral grade given a student who drops a course with a passing grade.

From the third week (the second week of a summer session) through the sixth week (third week of a summer session), any student who drops a course will receive a grade of W.

From the seventh week (fourth week of a summer session) through the tenth week (fifth week of a summer session), any student who drops a course will receive a grade of either W or F from the instructor in the course.

After the tenth week (fifth week of a summer session) through the remainder of the term, drops are not permitted except by direct petition to the dean of the college in which the student is enrolled. The student who drops with permission of the dean will receive a final grade of W or F at the discretion of the instructor.

### COMPLETE WITHDRAWAL

In order to withdraw from the University before the close of a semester or summer session, a student must report to their college dean’s office for a “withdrawal” card. The student must secure the signature of the dean of the college approving the withdrawal, and then the card must be filed in the Office of Registration. The student must follow this procedure to receive any refund of fees during specified refund periods.

Students withdrawing from all courses in the first six weeks of classes (first three weeks of a summer session) receive the grade of W in each course of enrollment. Beginning with the seventh week (fourth week of a summer session) through the last day of classes of the semester or summer term, these students must receive a grade of W or F from the instructor in each course upon withdrawal.

A student will be held responsible for the cost of board and room if either or both are furnished by the University.

### CHANGE OF COLLEGE AND MAJOR

A student who transfers from one degree-recommending college to another within the University must secure a transfer card from the dean of the college last attended and must have it approved by the dean of the college to which the transfer is occurring. The student is responsible for the transfer of academic records from the one college to the other.

University College students should contact their college dean’s office for information on transfer to a degree-recommending college.

A student who wishes to change major fields should consult his or her college dean’s office.

### CLASSIFICATION OF STUDENTS

- **Freshman**—through 29 semester hours earned.
- **Sophomore**—30–59 semester hours earned.
- **Junior**—60–89 semester hours earned.
- **Senior**—90 semester hours earned.

### FULL-TIME STUDENTS

To be considered full time, an undergraduate student must be enrolled in at least six hours in a summer session and at least 12 hours in a fall or spring semester. For limitations on graduate student enrollment, see the Graduate College section of this catalog.

### PAYMENT OF FEES

Fees may be paid and I.D.'s validated following enrollment. To avoid penalties for late payment, fees should be paid completely prior to the date given in the University calendar included in the current Class Schedule. Fees may be paid in person at the Bursar’s Office in Buchanan Hall, by mail, or by dropping a check in one of the Bursar drop boxes located conveniently around campus. For specific charges, see the section entitled, “Costs and Financial Aid.”

### REFUNDS

Refunds are calculated from the day classwork begins for each semester or session according to the following schedules established by the Oklahoma
COMPLETE WITHDRAWAL/CANCELLATION OF ENROLLMENT

Many students become confused by the difference between “canceling” and “withdrawing” and how these affect tuition charges and grades. Cancellation is the term OU uses if a student drops all of the classes before classes begin. Canceling enrollment removes all tuition charges and all record of enrollment. No grades are recorded. Withdrawal occurs if a student drops all of the classes after classes begin. If withdrawal occurs before the tuition obligation deadline, there are no tuition charges. However, the student will receive grades of W for any courses from which they withdraw. If the student withdraws after the deadline, the student will be charged full tuition rates.*

*Federal regulations required the First Time Title IV Attendees (students receiving federally guaranteed financial aid for the first time at OU) will be receiving federally guaranteed financial aid for the first time at OU) will be receiving grades of W for any courses from which they withdraw. If the student **withdraws after the deadline, the student will be charged full tuition rates.**

The S grade may not be used for lecture/recitation courses except with the expressed approval of the graduate dean. The U grade is used to indicate that satisfactory progress is being made and is a neutral grade to be used only for thesis and dissertation research courses numbered 5980 and 6980 and for thesis and dissertation equivalent courses numbered 5880 and 6880.

AW, meaning Administrative Withdrawal, is a neutral grade used to indicate that a student has been involuntarily withdrawn by the institution. Students may receive an AW for disciplinary reasons, financial reasons or inadequate attendance.

N is a temporary grade used only to indicate that no final grade has been reported at the time of grade processing and is removed from the student’s record when the final grade is received. It is neutral in the computation of the student’s grade point average.

GRADE POINT SYSTEM

Each hour of A, B, C, D and F carries a grade point value as follows: A=4, B=3, C=2, D=1 and F=0. Grades of P and S, as well as grades of I, X, U, N, NP, AW, and W, carry no grade point value and are not included in the computation of a student’s semester or cumulative grade point average.

GRADE REPORTS

All final grade sheets at the end of a semester and at the end of the summer session must be filed by the departments with the Office of Academic Records no later than the date specified in the call for grades.

CORRECTING GRADES REPORTED IN ERROR

The instructor initiates the change by filing a Faculty Request for Grade Change form with the department under which the course was taught.

Academic Forgiveness Policy

The Academic Forgiveness Policy, instituted by the Oklahoma State Regents for Higher Education, allows students, under certain circumstances, to have courses removed from the calculation of the retention/graduation grade point average. It consists of three components: the repeat policy the reprieve policy, and the renewal policy.

REPEAT POLICY

University policy prohibits students from repeating a course in which they have earned a grade of A or B unless the course is one in which there is a change of subject matter and the course has been designated “repeatable for credit”. Courses that are repeatable for credit are identified as such in the course description section of this catalog.

Students may repeat up to four courses or 18 hours (whichever comes first) in which the original grade was a ‘D’ or an ‘F’. Only the second grade will be included in the calculation of the retention/graduation grade point average. The original grade will still appear on the student’s permanent record, but will not be calculated into the student’s retention/graduation grade point average or total hours earned.

Students who repeat courses/hours beyond those under the Repeat Policy may do so with both the original grades and repeat grades included in the calculation of the retention/graduation grade point average. Academic credit from any division of the University of Oklahoma—Norman campus, OU Health Sciences Center, OU-Tulsa, or the College of Continuing Education—are included in the OU retention/graduation and cumulative grade point averages for purposes of retention and graduation.

A student may request only one reprieve or renewal from the University of Oklahoma.
ACADEMIC REPRIEVE POLICY

The Reprieve Policy allows students to request that one or two semesters' grades be excluded from the calculation of the combined retention/graduation grade point average. Grades from courses taken during the reprieve term will remain on the student's permanent record, but will only be calculated into the student's cumulative grade point average. A student may request an academic reprieve if the following criteria are met:

- The student must be currently enrolled as an undergraduate on the Norman campus;
- At least five years must have elapsed between the period in which the grades being requested to be reprieved were earned and the reprieve request; and
- Prior to requesting the reprieve, the student must have earned at least a 2.00 grade point average with no grade lower than C in all regularly graded coursework (minimum of 12 semester credit hours), excluding activity and performance courses. This coursework may be completed at any accredited higher education institution.

The request may be for one semester or two consecutive semesters/terms. If the reprieve is awarded, all grades and hours during the enrollment period are excluded from the retention/graduation grade point average. Coursework with a passing grade included in a reprieved semester may be used to demonstrate competency in the subject matter. However, the coursework may not be used to fulfill credit hour requirements. If the student's request is for two consecutive semesters/terms, the institution may choose to reprieve only one semester.

The student may not receive more than one academic reprieve during his/her academic career. The student will not be eligible to receive a reprieve if a previous reprieve request was denied at the University of Oklahoma.

The request form is available in Academic Records. Students should contact their college concerning the process for requesting a reprieve.

ACADEMIC RENEWAL POLICY

The Academic Renewal Policy allows students who have had academic trouble in the past and who have been out of higher education for a number of years to recover without penalty and have a fresh start. Under Academic Renewal, all course work taken prior to a date specified by the University of Oklahoma will be excluded from retention/graduation grade point average. All courses and grades will remain on the student's transcript and be calculated in the student's cumulative grade point average. Neither the content nor credit hours of renewed course work may be used to fulfill any degree or graduation requirements. If a student has received a renewal at another institution in Oklahoma, the student may request to have their college review the renewal. The student's college may accept the renewal at another institution in Oklahoma, the student may request to have their college review the renewal. The student's college may accept the renewal at the University of Oklahoma.

If the student has not received a renewal at another institution in Oklahoma, he/she may request an academic renewal if the following is met:

- The student must be currently enrolled as an undergraduate student on the Norman campus;
- At least five years must have elapsed between the period of time in which the grades being requested to be renewed were earned and the renewal request;
- Prior to requesting the renewal, the student must have earned at least a 2.00 grade point average with no grade lower than C in all regularly graded course work (minimum 12 semester credit hours), excluding activity and performance courses. This coursework may be completed at any accredited higher education institution.

The request form is available in Academic Records. Students should contact their college concerning the process for requesting an academic renewal.

Academic Appeals Boards

In each college of the University, there shall be established an Academic Appeals Board consisting of an equal number of students and faculty. Faculty members of the board will be chosen by the faculty of the college for a term determined by the faculty. Student members of the board will be appointed for a term of one year by the dean of the college upon recommendations from the Student President.

Each Academic Appeals Board will hear cases in which the issue to be resolved is that of prejudiced or capricious evaluation, or alleged inability to speak the English language to the extent necessary to adequately instruct students. Except for those cases that arise in the College of Law, the following procedures shall apply. (For procedure in the College of Law, contact the Office of the Dean.)

1. A Board will hear a case only after a student has notified an instructor of a dispute over an academic evaluation and after the student has made an unsuccessful attempt to resolve differences with the instructor, if necessary in consultation with the departmental chair. In cases of end-of-term evaluations, a student must notify an instructor of a dispute over an academic evaluation and must attempt to resolve differences no later than February 15 for the previous fall semester or winter intersession; and no later than September 15 in cases of end-of-term evaluations for the previous spring semester, spring intersession, or summer session. In cases of an evaluation made known to a student during the term, the student must notify an instructor of a dispute over academic evaluation and must attempt to resolve differences no later than 15 calendar days (excluding Saturdays, Sundays, and University holidays from classes) after the results of the evaluation are made known to the student. If a student fails to notify an instructor or fails to attempt resolution within the appropriate time limit, the Board shall deny any request for a hearing on the claim unless, in the view of the Board, the student has been prevented from complying with the appropriate time limit (as for example, in the case of a student being called into military service).

2. The filing of a written request for a hearing on a claim before the appropriate Academic Appeals Board shall be within 10 calendar days (excluding Saturdays, Sundays, and University holidays from classes) following the day when the attempts at resolution in paragraph (a) above are completed. The Board shall deny any request for a hearing on a claim that does not meet this deadline unless, in the view of the Board, exceptional circumstances exist whereby the student is prevented from filing the claim. Furthermore, if in the judgment of the Board, the case is deemed to be without merit or has already been satisfactorily resolved in the department, the Board may refuse the student a hearing.

3. To avoid a jurisdictional impasse, the appeal shall be heard by the Appeals Board in the undergraduate college in which both the course and the instructor are located. Any thesis and dissertation appeals shall be heard by the Graduate College Appeals Board.

4. It shall be the primary function of a board to mediate or adjudicate disputes that have not been satisfactorily resolved on the department level.

5. Each Board shall be given the responsibility of establishing its own rules of procedure. Such rules as it establishes must be consistent with the full protection of the rights of all parties involved.

6. Meetings of a board may be closed to the public.

7. Decisions of the Board shall be communicated in writing to the Board's dean, the student's dean, the student, and the instructor. The Board's decisions shall be final and shall be implemented unless either the student or the instructor makes written appeal to the Executive Committee (or comparable body) of the degree-recommending college within 10 calendar days (excluding Saturdays, Sundays, or University holidays from classes) after being notified of the Board's decision. The decision of the Executive Committee (or comparable body) shall be final and shall be implemented unless either the student or the instructor makes written appeal to the faculty of the degree-recommending college within 10 calendar days (excluding Saturdays, Sundays, and University holidays from classes) after being notified of the Committee's decision. In the case of an appeal to the faculty of the degree-recommending college, the faculty's decision shall be final and shall be implemented. The faculty of a degree-recommending college, however, may delegate their authority to consider appeals under this policy to the Executive Committee (or equivalent body) of the degree-recommending college, in which case the decision of the Executive Committee shall be final and shall be implemented without appeal to the faculty.

8. Revisions to this policy shall be reviewed by the Faculty Senate and the Student Code Revision Committee.
Standards Of Scholarship

The following standards relating to retention of undergraduate students at the University of Oklahoma have been established. For continued enrollment in good standing, a student must maintain a retention grade point average based on total hours attempted as indicated as follows:

- 0 through 30 semester credit hours attempted—1.70
- Greater than 30 semester credit hours attempted—2.00

Students with 0 to 30 semester hours attempted and a retention grade point average of 1.70 to 1.99 will be placed on academic notice.

The retention grade point average is based on all work attempted, both transfer and OU, minus those courses repeated or reprinted in accordance with the academic forgiveness policy, as well as remedial courses, and PE activity courses. These standards are minimal. Each degree-recommending college may establish higher standards for retention.

ACADEMIC PROBATION AND SUSPENSION

Students not meeting retention standards will be placed on academic probation for one semester, at the end of which they must have met the minimum standard required to continue as a student in good standing. However, a student enrolled on probation may be continued on probation provided he or she makes a 2.00 grade point average on that semester’s work. Students should check with their college dean’s office or with the Office of Academic Records for specific enrollment requirements while on academic probation. A student enrolled on probation, who fails to raise his or her cumulative retention grade point average to minimum requirements or make a 2.00 grade point average on work taken while on probation, excluding activity courses, will be suspended for poor scholarship.

Credit completed after the end of the term, or credit earned at another institution, will be included in the student’s retention/graduation grade point average at the time the work is recorded in Academic Records. The student’s current academic status will be reviewed and/or updated at that time but previous postings of academic standing will remain unchanged. A student’s academic status will not be changed retroactively.

A student suspended from the University for academic reasons is not eligible for readmission until one full semester has elapsed following the date of suspension. Any student who has been suspended should contact the Admissions Office for further instructions.

Regulations concerning admission, readmission, probation, and suspension of undergraduate students at the University are administered by the Committee on Academic Regulations, of which the Associate Vice President for Admission, Records and Financial Aid is chairperson.

The regulations of various colleges, established by the faculty, are administered by the deans concerned:

- **a.** After a student has been readmitted to the University following suspension, he or she must meet any specific conditions established by the dean of his or her college for retention in that college.
- **b.** A student who fails to meet college requirements may be placed on probation in that college or denied enrollment in that college.

While the University fully acknowledges the student’s rights of privacy concerning this information, it also recognizes that certain information is part of the public record and may be released for legitimate purposes.

With these considerations in mind, the University of Oklahoma adopts the following policy concerning the release of information contained in student records:

1. **Directory Information:** This is information that routinely appears in student directories and alumni publications and may be freely released. Upon written request by the student, this information will be treated as confidential and released only with the student’s written consent. Forms for withholding student “Directory Information” are available in the Office of Admissions and Records on each campus.
   a. Name, current and permanent home addresses, telephone number, and e-mail addresses.
   b. College, major and classification.
   c. Current enrollment status.
   d. Dates of attendance.
   e. Degrees and dates of graduation.
   f. University honors.
   g. Verification of student’s participation in recognized student activities.
   h. Posting of individual student’s grades and interim class evaluations by code number.
   i. Anticipated date of graduation based on completed hours.
   j. Weight and height of athletic team members.
   k. Photograph.

2. **Confidential Information:** This is all other information contained in the student’s educational record and can be released only upon the written consent of the student, with the following exceptions as defined in the Family Educational Rights and Privacy Act of 1974, as amended, which waive prior student consent.
   a. Other school officials within the educational institution who have legitimate educational interests. Other school officials are defined as:
      - a person employed by the University in an administrative, supervisory, academic or research, or support staff position, including health and medical staff;
      - a person appointed to the Board of Regents;
      - a person employed by or under contract to the University to perform a special task, such as the attorney or auditor;
      - a person who is employed by the University Law Enforcement Unit; or
      - a student serving on an official committee such as a disciplinary or grievance committee, or who is assisting another school official in performing their tasks.
   b. A school official has a legitimate educational interest if the official is:
      - performing a task related to the student’s education;
      - performing a task related to the discipline of a student;
      - providing a service or benefit relating to the student or student’s family such as health care, counseling, job placement, or financial aid; or
      - maintaining the safety and security of the campus.
   c. Officials of schools to which the student seeks to transfer.
   d. The Comptroller General of the United States, the HEW Secretary, the administrative head of an educational agency, or State educational authorities.
   e. In connection with a student’s application for, or receipt of, financial aid.
   f. State and local officials or authorities to which such information is specifically required to be reported under State statute adopted prior to November 17, 1974.
   g. Organizations or educational agencies conducting legitimate research, provided no personally identifiable information about the student is made public.
   h. Accrediting organizations.
   i. Parents of a dependent student upon proof of dependency as defined by the Internal Revenue Code of 1954. (Parents of international students are excluded.)
   j. To comply with a judicial order or lawfully issued subpoena; provided that the educational agency or institution makes a reasonable effort to notify the student of the order or subpoena in advance of compliance.

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**Academic Records**

**PROCEDURES FOR THE RELEASE OF INFORMATION ABOUT STUDENTS**

Information about students and former students gathered by the University of Oklahoma is of two types: (1) directory, and (2) confidential. Any office gathering such information, and/or having custody of it, shall release it only in accordance with this policy.

When a student enters a university and furnishes data required for academic and personal records, there is an implicit and justifiable assumption of trust placed in the university as custodian of such information. This relationship continues with regard to any data subsequently generated during the student’s enrollment.
j. In connection with an emergency when such information is necessary to protect the health or safety of the student or other persons.
k. The result of any disciplinary proceeding conducted by the University against an alleged perpetrator of a crime of violence to the alleged victim of that crime.
Confidential information shall only be transferred to a third party, however, on the condition that such party will not permit any other party to have access to the information without the written consent of the student.
Original credentials with which a student applies for admission or readmission to the University become the property of the University, are assembled in a permanent student folder, and are not released to anyone. The file contents are made available only to those persons properly authorized to receive confidential information and only in consultation with a professional staff member in the Office of Admissions and Records.

Although the permanent academic record is a cumulative record compiled by the student, the Associate Vice President for Admissions, Records and Financial Aid is the officer of the institution charged with the responsibility of its accuracy and safekeeping. Accordingly, the student folder and the permanent cumulative academic record are not available to anyone for removal from the Associate Vice President’s assigned depository. While the release of an official transcript is limited to the student, or any party to whom he/she has assigned permission to request it, the student may place a hold on the release of his/her own transcript to anyone without his/her specific permission by filing a request in writing with the Office of Academic Records, Room 330, Buchanan Hall, Norman, OK 73019. More information concerning this policy may be obtained by contacting the Office of Admissions and Records.

PROCEDURES TO INSPECT EDUCATION RECORDS

Students may inspect and review their education records upon request to the appropriate records custodian or appropriate University staff person. Refer to the section within this policy that defines the type of records along with the location and name of the custodian. Students should submit to the records custodian or an appropriate University staff person a written request which identifies as precisely as possible the record or records he or she wishes to inspect. The records custodian or appropriate University staff person will make the needed arrangements for access as promptly as possible and notify the student of the time and place where the records may be inspected. Access must be given in 45 days or less from the date of receipt of the request. When a record contains information about more than one student, the student may inspect and review only the records that relate to him or her.

LIMITATIONS ON RIGHT OF ACCESS

The University reserves the right to refuse to permit a student to inspect the following records:
1. The financial statement of the student’s parents.
2. Letters and statements of recommendation for which the student has waived his or her rights of access, or which were maintained before January 1, 1975.
3. Records related to an application to attend the University of Oklahoma or a component unit of the University if that application was denied.
4. Those records which are excluded from the FERPA definition of education records.

REFUSAL TO PROVIDE COPIES

The University of Oklahoma reserves the right to deny students copies of their educational records, including transcripts, not required to be made available by the FERPA in the following situations:
1. The student has an unpaid financial obligation to the University.
2. There is an unresolved disciplinary action against the student.
3. The education record requested is an exam or set of standardized test questions.

Fees For Copies of Records

Fees for transcripts and other copying charges vary between campuses of the University. Please contact your campus about the specific fees applicable to your request.

RECORD OF REQUESTS FOR DISCLOSURE

The University maintains a record of all requests for and/or disclosure of information from a student’s education record. The record indicates the name of the party making the request, any additional party to whom it may be disclosed, and the legitimate interest the party had in requesting or obtaining the information. The eligible student may review the record.

Students may sign a release authorizing another party to have access to his or her educational record. The appropriate record custodian will maintain these signed releases for a period of time specified by the campus or office maintaining the information.

CORRECTION OF EDUCATION RECORDS

Students have the right to ask to have records corrected that they believe are inaccurate, misleading, or in violation of their privacy rights. Following are the procedures for the correction of records:
1. A student must ask the appropriate official of the University of Oklahoma to amend a record. (Refer to the section within this policy that defines the type of records along with the location and name of the custodian.) In so doing, the student should identify the part of the record to be amended and specify why the student believes it is inaccurate, misleading, or in violation of his or her privacy rights.
2. The University may comply with the request or it may decide not to comply. If it decides not to comply, the University will notify the student of the decision and advise the student of his or her right to a hearing to challenge the information believed to be inaccurate, misleading, or in violation of the student’s privacy rights.
3. Upon request, the University will arrange for a hearing and notify the student, reasonably in advance of the date, place and time of the hearing.
4. The hearing will be conducted by a hearing officer who is a disinterested party; however, the hearing officer may be an official of the institution. The student shall be afforded a full and fair opportunity to present evidence relevant to the issues raised in the original request to amend the student’s education records. One or more individuals may assist the student, including an attorney retained at his or her expense. The University may be represented by University Legal Counsel.
5. The University will prepare a written decision based solely on the evidence presented at the hearing. The decision will include a summary of the evidence presented and the reasons for the decision.
6. If the University decides that the information in the student’s record is inaccurate, misleading, or in violation of the student’s right of privacy, it will amend the record and notify the student, in writing, that the record has been amended.
7. If the University decides that the challenged information is not inaccurate, misleading, or in violation of the student’s right of privacy, it will notify the student that he or she has a right to place in the record a statement commenting on the challenged information and/or a statement setting forth reasons for disagreeing with the decision. The statement from the student will be maintained as a part of the student’s education records as long as the contested portion is maintained. If the University discloses the contested portion of the record, it must also disclose the student’s statement.

PARENTAL ACCESS TO STUDENT ACADEMIC RECORDS

Parents of a dependent student may have access to grades and other confidential academic information under guidelines provided in the Family Educational Rights and Privacy Act of 1974. Access to this information is limited to parents who claim the student as an exemption on their federal tax return.

Requests for specific grade or other academic information can be addressed to the appropriate office maintaining that information. Please refer to the list of types of information and location for additional assistance. Each
request must include a copy of the top portion of the parents’ most recent tax return showing the student’s name and social security number listed as a dependent. Academic information can also be obtained by providing the appropriate office with written consent of the student.

TRANSCRIPTS

Official transcripts are released by the Office of Academic Records upon the written request of the student, except that the University reserves the right to withhold an official transcript for any student with financial indebtedness to the University.

Graduation

Although the formal commencement ceremony is held only at the conclusion of the spring semester, degrees are posted and awarded in absentia at the end of each fall and spring semester and summer session. The degree and date of the diploma are entered on the student’s permanent academic record. The date of graduation for each term is the last day of examinations in the fall, the date of commencement in the spring and the last day of classes in the summer. All diplomas are mailed to students following the official graduation date.

For a student to graduate, all work required for the degree must be completed satisfactorily by the last day of finals of the semester or term. It is the student’s responsibility to make sure all degree requirements have been met.

Students should check with the Office of Academic Records or their college office regarding the date all work must be submitted to the Office of Admissions and Records including I makeup reports, transfer work, correspondence grades, and any other information required to complete their requirements for graduation.

Should a student complete all academic requirements for graduation and apply for the degree at a time other than the end of a semester or summer session, the Office of Academic Records, upon request, will issue a certified statement that he or she is eligible for the degree as of the date when the requirements for the degree were completed.

A student may elect to be graduated under the requirements for an undergraduate degree in effect at the time of his or her first enrollment in the state system provided that he or she completes the work for the degree within a maximum time limit, determined by the college, of not less than six nor more than ten years. If the work for a degree covers a period longer than that specified by the college, the college, in consultation with the student, will determine the catalog or bulletin to be in effect for that student’s graduation.

A student whose initial enrollment in the state system is during the summer session will be subject to the degree requirements in effect for the academic year following that summer.

Credit in the student’s major field or area of concentration which is more than 10 years old may not be applied toward a bachelor’s degree unless it is validated by the major department, or by the departments in the student’s area of concentration. (The term “area of concentration” is included in addition to “major field” to allow for those cases in which the equivalent of a major may be earned by a combination of work in several departments.)

The following general requirements must have been met in order to be eligible for an undergraduate or first professional degree from the University of Oklahoma:

1. Each student must satisfactorily complete the requirements for graduation prescribed by the faculty of the college recommending the degree.

2. A student must take a minimum of 30 semester credit hours at the University of Oklahoma, exclusive of correspondence and extension courses. At least 15 of the final 30 hours applied toward the bachelor’s degree must be satisfactorily completed in residence at the University. However, colleges may have higher standards and it is the student’s responsibility to be informed concerning the specific requirements for graduation from the degree program in which he or she is enrolled.

Work done in residence means college-level courses taken, academic credit from any division of the University of Oklahoma, including the Norman Campus, the Health Sciences Center, Tulsa, and the College of Continuing Education, with the exception of Correspondence courses. Grades and hours earned at any of these divisions are included in the OU retention/graduation grade point average for purposes of determining completion of degree requirements.

3. Students recommended for the bachelor’s degree must achieve a combined retention/graduation grade point average of at least 2.00 in all coursework attempted, including both work undertaken at the University and transfer courses, excluding any courses repeated or reprieved as detailed in the State Regents’ Grading Policy and excluding physical education activity courses. However, colleges may require a grade point average higher than 2.00 for graduation, and it is the student’s responsibility to be informed concerning the specific requirements for graduation from the degree program in which he or she is enrolled.

4. The Oklahoma State Regents for Higher Education require that all students graduating from institutions in the Oklahoma State System of Higher Education, before they are awarded a baccalaureate degree of any type, must have completed at least six semester hours of college credit in American history and government.

5. Responsibility for meeting graduation requirements lies with the student.

6. A student who is a candidate for a degree at the close of any semester or summer session must file an official Application for Graduation and pay all tuition and fee charges before the degree will be conferred and a diploma issued. For students who have not paid all of the tuition and fees by the end of the term, the degree will not be posted to their academic record and a diploma will not be issued until their tuition and fees are paid. Once these are paid in full, the degree will be posted and the diploma issued and dated with the term in which the student completed degree requirements. Those finishing in the fall should file a graduation application by November 1; those finishing in the spring, by March 1; and those in the summer, by July 1. Students who plan to participate in the commencement ceremony must pay a cap and gown rental fee. The University of Oklahoma prints a commencement program each spring to be distributed at the May commencement exercises. Student who do not wish their name to be published in the program must mark the appropriate box on the graduation application for their name to be withheld.

7. A student may receive a second bachelor’s degree either from the college from which he or she received a first degree or from another college in the University. In order to receive a second degree, however, a student must spend at least two semesters in residence and complete at least 30 additional hours in the college. These 30 hours must be in addition to the total number of hours completed by the student for the first degree. Two degrees may be conferred at the same commencement, provided permission is granted by the faculty or faculties recommending each degree, and provided the student files the additional Application for Graduation.

8. Degrees achieved with honors, pursuant to University and/or State legislation, shall be recognized by diplomas attesting the character of such honors and their relative degree. Students graduating cum laude must be admitted to the Honors College. Should a student qualify for graduation with both college distinction and University honors, the student shall be graduated cum laude.
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<td>OU-Norman</td>
<td>Office of Admissions, 1000 Asp Ave., Room 127, Norman, OK 73019</td>
<td>Associate Vice President for Admissions, Records &amp; Financial Aid</td>
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<td>OU in Tulsa</td>
<td>University of Oklahoma Tulsa Office, 700 N. Greenwood, Tulsa, OK 74106-0700</td>
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<td>OU-HSC</td>
<td>Admissions Office, BSEB 200, 941 S. L. Young Blvd., Oklahoma City, OK 73104</td>
<td>Vice Provost for Educational Services and Registrar</td>
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<td>Transcripts</td>
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<td>Office of the Bursar, 1000 Asp Ave., Room 105, Norman, OK 73019</td>
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<td>OU in Tulsa</td>
<td>Contact University of Oklahoma Tulsa Office (918) 594-8370</td>
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<td>Office of the Bursar, SCB 118, 1100 N. Lindsey, Oklahoma City, OK 73104</td>
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<td>Vice President for Student Affairs and/or College Dean</td>
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<td>OU in Tulsa</td>
<td>Student Services Office, Schusterman Center, 4502 E. 41st St., Tulsa, OK 74135</td>
<td>Graduate Dean, University of Oklahoma Tulsa Office</td>
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<td>Student Health Services, Family Medicine Clinic, 900 N.E. 10th, Oklahoma City, OK 73104</td>
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Cost of Attending OU

The cost of attending The University of Oklahoma includes tuition, fees, books, housing (including room and board), transportation and miscellaneous living expenses. The actual costs of attending the University will vary depending on a student’s resident status, academic level, course load, housing option, personal needs, and spending habits.

The most common student budgets for financial aid recipients are listed in the table “Estimated Costs of Attending OU” located at the end of this section. These budgets reflect the estimated costs for the fall and spring semesters. The enrollment costs are based upon enrollment of 15 hours per semester for undergraduates and law students and seven hours per semester for graduate students. Tuition for the undergraduate budgets is based upon a weighted average of lower- and upper-division courses. These budgets reflect standardized costs of attendance developed by Financial Aid Services for the administration of financial aid programs.

Fees for 2003-04 (SUBJECT TO CHANGE)

The following is a list of fees for the 2003-04 academic year. Fees are subject to change by the Oklahoma State Regents for Higher Education.

For the most up-to-date information concerning tuition and fees, visit the Office of the Bursar web page at: http://www.ou.edu/bursar/

ENROLLMENT FEES AND TUITION

All students pay resident tuition and student activity fee for each credit hour in which they are enrolled. The amount of the resident tuition varies with course level, whereas the student activity fee is the same for all students. In addition to these two fees, all students who are not residents of Oklahoma must pay nonresident tuition, the amount of which varies with course level. The amount which students must pay for each credit hour is shown in the boxes in the accompanying table. Also listed in the “Required Tuition and Fees” table are other fees that are required for enrollment.

MISCELLANEOUS FEES

Late Registration Fee .................................................................$20.00
Audit Fees - See Enrollment Fees and Tuition
Advanced Standing, per credit hour ...........................................$10.00

Graduation Fees

All students graduating from the University of Oklahoma must fill out an Application for Graduation and pay all fee and tuition charges before their degree can be officially conferred and a diploma issued. Applications for graduation should be picked up at the student’s college office, filled out and turned in to the Office of Academic Records, Room 330, Buchanan Hall. Doctoral candidates must complete their application for graduation and pay the microfilming fee of $54.00 in the Office of the Bursar.

Degree candidates should keep in mind the following deadlines for graduation applications:

- Fall graduates — November 1
- Spring graduates — March 1
- Summer graduates — July 1

All inquiries regarding graduation should be directed to the Office of Academic Records, (405) 325-2017.

PAYMENT OF FEES

Fees may be paid at the Office of the Bursar in Buchanan Hall (8:00 A.M.–5:00 P.M.) Monday–Friday. To avoid service charges, fees should be paid completely prior to the date given in the fee and tuition information included in the current Class Schedule. Fees may be paid in person at the Bursar’s Office in Buchanan Hall, by mail, or by dropping a check in one of the Bursar drop boxes located conveniently around campus.

Monthly statements will be prepared and mailed prior to the fee payment deadline. Failure to receive a statement will not exempt a student from late penalties. It is the student’s responsibility to determine his/her financial obligation and how it is to be met.

REFUND POLICY

(The Oklahoma State Regents refund policy with respect to fees and tuition is as follows):

Changes in schedules and complete withdrawals from the institution during the defined add/drop period (first 10 days of classes in fall and spring semesters, first five days of classes in summer session) will result in full charges for courses added and full credit for courses dropped. No refunds will be made after the add/drop period for the session except as stipulated for recipients of Title IV aid.

CHARGES FOR LOSS, DAMAGE, OR RENTALS

Students will be furnished the normal amount of consumable materials and supplies required in a laboratory course without charge other than the general fee. Additional charge will be made, on an individual basis, for breakage of laboratory equipment because of student negligence; for use of consumable materials and supplies in excess of the normal requirements of the course; for rental of band or orchestra instruments for individual use; and for use of laboratory equipment by students not enrolled in courses requiring use of such equipment.

Financial Aid

Financial aid is any financial resource that a student receives to assist in meeting the cost of attending college. These resources include awards such as federal and state grants, loans, student employment and scholarships. Students must apply for financial aid annually and demonstrate eligibility as determined by regulations established by the U.S. Department of Education. Financial Aid Services is responsible for the administration of the federal financial aid programs. Additional sources of funding may include tribal grants, vocational rehabilitation assistance and funding from other outside agencies.

FINANCIAL AID APPLICATION PROCESS

Students are encouraged to apply for financial aid electronically via FAFSA (Free Application for Federal Student Aid) on the Web, or by submitting a paper FAFSA application. Do not submit both an electronic and paper application for the same award year. Students should first visit OU Financial Aid Services web page at www.financialaid.ou.edu to learn about deadlines and other important financial aid information including scholarships and other aid resources. This website will link to the FAFSA application or students may visit the U.S. Department of Education website directly at www.fafsa.ed.gov. Students must file the FAFSA annually and are encouraged to submit the FAFSA as soon as possible after January 1 in order to be considered for all available aid programs. The recommended filing date for the FAFSA is prior to March 1 for the following fall/spring semesters. For priority processing, all requested documents must be received in Financial Aid Services by June 1 for the following fall/spring semesters and by November 1 for the spring only semester. Contact Financial Aid Services directly or check our website for information about applying for summer financial aid as a separate summer application is required.

All aid applicants and parents are encouraged to obtain a U.S. Department of Education PIN at www.pin.ed.gov. This PIN number may be used to sign the FAFSA electronically. After the FAFSA has been submitted, the student will receive a response from the U.S. Department of Education. Financial Aid Services will notify admitted students via their OU email account if any
additional information is needed. Financial aid applicants who are not yet admitted will be notified via postal mail. After the student submits the required information and meets all eligibility requirements, Financial Aid Services sends an OU-FAN (Financial Aid Notification) to inform the student about the financial aid awards which are available to help meet the cost of attending OU. A student's total award may consist of a combination of grants, loans and student employment. The student then decides which aid programs to accept or decline, and submits the award acceptance online. Complete information regarding the financial aid programs offered and the disbursement process is included as links on the OU-FAN.

FINANCIAL AID PROGRAMS

A number of financial aid programs are available at The University of Oklahoma. The FAFSA is used to apply for the following financial aid programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), Oklahoma Tuition Aid Grant (OTAG), Federal Perkins Loan, Federal Family Education Loan Program and Federal Work-Study. The Federal Family Education Loan Program includes the Federal Stafford Loans (Subsidized and Unsubsidized) and Federal Parent Loan (PLUS). The PLUS Loan requires a separate application. Additional financial aid programs administered by Financial Aid Services include the Oklahoma Resident Tuition Waiver, some need-based scholarships, and several low interest institutional loan programs. See the OU Financial Aid Programs at a Glance chart on the following page for additional application requirements.

Financial Aid Services is open from 8 A.M.–5 P.M., Monday–Friday, excluding University holidays, and is located in Buchanan Hall, Room 216. For additional information on financial aid programs and application information you may wish to visit our website at www.financialaid.ou.edu and check out “Ask the Sooners” for answers to the most frequently asked financial aid and billing questions, or contact us at:

Financial Aid Services
1000 Asp Ave., Room 216
Norman, OK 73019-4078
Phone: (405) 325-4521; FAX: (405) 325-7608

SCHOLARSHIPS

Students are encouraged to apply for merit and talent based scholarships to help supplement the costs of attending The University of Oklahoma. Scholarships based on academic ability or other talent are available to students without regard to financial need. Students may conduct a personalized search of most OU scholarships on the web at www.scholarships.ou.edu or refer to this information on The University of Oklahoma General Catalog CD. A limited number of paper copies of the publication A Guide to Financial Aid and Scholarships are available through the Office of Prospective Student Services. Recipients of academic, talent-based, or other awards that also receive federal financial aid may expect their award letters to be revised.

![Estimated Costs of Attending OU (2003-04 Academic Year)](image)

<table>
<thead>
<tr>
<th>Level of Coursework</th>
<th>Resident Tuition per credit hour</th>
<th>Additional Fees per credit hour*</th>
<th>Total Resident Tuition/Fees per credit hour</th>
<th>Additional Non-Resident Tuition per credit hour</th>
<th>Total Non-Resident Tuition/Fees per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower-Division Coursework (1000-2000 courses)</td>
<td>$82.00</td>
<td>$32.90</td>
<td>$114.90</td>
<td>$204.30</td>
<td>$319.20</td>
</tr>
<tr>
<td>Upper-Division Coursework (3000-4000 courses)</td>
<td>$87.40</td>
<td>$32.90</td>
<td>$120.30</td>
<td>$229.90</td>
<td>$350.20</td>
</tr>
<tr>
<td>Graduate Coursework (5000-6000 courses)</td>
<td>$115.60</td>
<td>$32.90</td>
<td>$148.50</td>
<td>$283.20</td>
<td>$431.70</td>
</tr>
<tr>
<td>College of Law Coursework</td>
<td>$221.70</td>
<td>$31.90</td>
<td>$253.60</td>
<td>$330.95</td>
<td>$584.55</td>
</tr>
</tbody>
</table>

| *Additional Required Per Credit Hour Fees: | | | | | |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Student Facility Fee | $7.30 | | | | |
| Student Activity Fee | $5.15 | | | | |
| Transit Fee† | $1.50 | | | | |
| Assessment Fee | $1.00 | | | | |
| Library Excellence Fee | $5.25 | | | | |
| University Connectivity Fee | $10.00 | | | | |
| Security Services Fee | $2.70 | | | | |

| Other Required Fees per Credit Hour: | | | | | |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Special Event Fee | $1.75‡ | | | | |
| Academic Facility & Life Safety Fee | $9.00§ | | | | |

‡ OU-Tulsa students do not pay these fees.
§ Do not pay Assessment fee.

In addition, individual courses may have special fees. The fee amount is listed under the course name and number in the Class Schedule.
## Costs and Financial Aid

### OU Financial Aid Programs at a Glance

<table>
<thead>
<tr>
<th>Program Name, Source of Aid</th>
<th>Application Form</th>
<th>Application Deadline/ Preferential Filing Date</th>
<th>Who to Contact</th>
<th>Student Classification: Undergraduate, Graduate, Professional</th>
<th>Approximate Annual Maximum Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grants</strong></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Federal Pell Grant, Federal Government</td>
<td>Free Application for Federal Student Aid (FAFSA)</td>
<td>As soon after January 1 as possible for the following fall/spring terms</td>
<td>Financial Aid Services (405) 325-4521 <a href="http://www.financialaid.ou.edu">www.financialaid.ou.edu</a></td>
<td>Undergraduate (working on first bachelor's degree)</td>
<td><strong>$3,750</strong></td>
</tr>
<tr>
<td>Federal Supplemental Educational Opportunity Grant, (SEOG), Federal Government</td>
<td>FAFSA</td>
<td>As soon after January 1 as possible for the following fall/spring terms</td>
<td>Financial Aid Services</td>
<td>Undergraduate (working on first bachelor's degree)</td>
<td><strong>$600</strong></td>
</tr>
<tr>
<td>Oklahoma Tuition Aid Grant (OTAG), State Government</td>
<td>FAFSA</td>
<td>As soon after January 1 as possible for the following fall/spring terms</td>
<td>Financial Aid Services</td>
<td>Undergraduate, graduate, and law for Oklahoma residents</td>
<td><strong>$1,000</strong></td>
</tr>
<tr>
<td><strong>Scholarships</strong></td>
<td></td>
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</tr>
<tr>
<td>Resident Tuition Waiver, University of Oklahoma</td>
<td>FAFSA</td>
<td>As soon after January 1 as possible for the following fall/spring terms</td>
<td>Financial Aid Services</td>
<td>Undergraduate, graduate, and law for Oklahoma residents</td>
<td><strong>$1,000 – $2,000</strong></td>
</tr>
<tr>
<td>OU Scholar’s Program, University of Oklahoma</td>
<td>Institutional Scholarship Application</td>
<td>Must be received by February 1</td>
<td>Prospective Student Services 1 (800) 234-6868 (405) 325-2151 <a href="http://www.scholarships.ou.edu">www.scholarships.ou.edu</a></td>
<td>Undergraduate</td>
<td>University Scholars: $1,000 for one year; Valedictorian: $1,000 for four years; Honors: $1,500 for four years; Award of Excellence: $2,000 for four years (must maintain gpa)</td>
</tr>
<tr>
<td>President’s Leadership Class, University of Oklahoma</td>
<td>Institutional Scholarship Application</td>
<td>Must be received by February 1</td>
<td>Prospective Student Services</td>
<td>Undergraduate</td>
<td>$1,000</td>
</tr>
<tr>
<td>University Achievement Class, University of Oklahoma</td>
<td>Institutional Scholarship Application</td>
<td>Must be received by February 1</td>
<td>Prospective Student Services</td>
<td>Undergraduate</td>
<td>$1,000</td>
</tr>
<tr>
<td>Transfer Scholarships: Phi Theta Kappa, Transfer Academic Excellence, Transfer Leadership Class, University of Oklahoma</td>
<td>Institutional Scholarship Application</td>
<td>Must be received by March 1</td>
<td>Prospective Student Services</td>
<td>Undergraduate</td>
<td>$1,000</td>
</tr>
<tr>
<td>Generations Tuition Waiver, American Indian Tuition Waiver</td>
<td>Admission Application and Supporting Documentation</td>
<td>Must be received by June 1</td>
<td>Prospective Student Services</td>
<td>Undergraduate for Non-Residents</td>
<td>$3,000 – $3,200</td>
</tr>
<tr>
<td>Departmental Scholarships, University of Oklahoma</td>
<td>Departmental Application</td>
<td>Varies</td>
<td>Prospective Student Services <a href="http://www.scholarships.ou.edu">www.scholarships.ou.edu</a></td>
<td>Undergraduate, graduate, and professional</td>
<td>Varies</td>
</tr>
<tr>
<td>Oklahoma Academic Scholar Program, State Government</td>
<td>Oklahoma State Regents Scholarship Application</td>
<td>Applications accepted beginning Oct. 15 each year, for following school year</td>
<td>National Scholars Office (405) 325-1290</td>
<td>Undergraduate</td>
<td>$5,500</td>
</tr>
<tr>
<td><strong>Jobs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Work Study (FWS), Federal Government</td>
<td>FAFSA and Employment Application</td>
<td>As soon after January 1 as possible for the following fall/spring terms</td>
<td>Financial Aid Services</td>
<td>Undergraduate, graduate, and professional</td>
<td>$3,200</td>
</tr>
<tr>
<td>Student Employment, University of Oklahoma</td>
<td>Employment Application</td>
<td>Depends upon job availability</td>
<td>Personnel Services (405) 325-1826 Jobline: (405) 325-4343</td>
<td>Undergraduate, graduate, and professional</td>
<td>Varies. Depends on job classification and hours worked.</td>
</tr>
<tr>
<td><strong>Loans</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Federal Perkins Loan, Federal Government</td>
<td>FAFSA</td>
<td>As soon after January 1 as possible for the following fall/spring terms.</td>
<td>Financial Aid Services</td>
<td>Undergraduate, graduate, and professional</td>
<td>$2,000–undergraduates $4,000-graduates</td>
</tr>
<tr>
<td>Institutional Loans: Lew Wentz Merit, Murray Case Sells, Robey and Robey, Sallie B. Clark, University of Oklahoma</td>
<td>FAFSA and/or Institutional Loan Application</td>
<td>April 1 Recommended</td>
<td>Financial Aid Services</td>
<td>Undergraduate, graduate, and professional</td>
<td>$2,000 – $5,000</td>
</tr>
<tr>
<td>Federal Stafford Loan, Federal Unsubsidized Stafford Loan, Federal Government</td>
<td>FAFSA and Loan Application</td>
<td>As soon after January 1 as possible for the following fall/spring terms. Loans require additional time for complete processing.</td>
<td>Financial Aid Services</td>
<td>Undergraduate, graduate, and professional</td>
<td>Undergraduate: $2,625, year 1; $3,500, year 2; $5,500, years 3 and 4; Graduate/professional: $8,500/year. Additional unsub. may be available.</td>
</tr>
<tr>
<td>Federal Parent Loan for Undergraduate Students (PLUS), Federal Government</td>
<td>Application available from OU Financial Aid Services or lending institution</td>
<td>Loans require 6-8 weeks for complete processing. Lenders require a credit check.</td>
<td>Financial Aid Services</td>
<td>Undergraduate</td>
<td>Varies, up to cost of attendance</td>
</tr>
</tbody>
</table>
Student Affairs

Vice President for Student Affairs
Oklahoma Memorial Union, Room 265
(405) 325-3161  wwwdsa.ou.edu

The mission of Student Affairs is to recruit students reflecting the rich diversity of the state and global population and to provide those students, once enrolled, with co-curricular programs, activities and services that:

• Strengthen the educational environment for learning.
• Facilitate full development of student talents and abilities.
• Support and encourage students in the achievement of their educational and career goals and objectives.
• Enhance the sense of community and the overall quality of campus life.
• Assist students in making the transition from academic life to the work force.

The Division of Student Affairs recognizes the increasingly diverse nature of the student population. With that in mind, many programs, activities and services are designed to meet the special needs of minorities, women, veterans, persons with disabilities, transfer students and other distinct groups.

Events, activities and more than 200 student organizations cover a full range of student interests. From small workshops to retreats, traditional campus-wide events, residential living, judicial services, student government and more, Student Affairs offers programs to help students establish and meet their personal goals.

Career Services

Career Services
Oklahoma Memorial Union, Room 323
(405) 325-1974  www.ou.edu/career

Career Services assists students and alumni of the University in the areas of career exploration, career development and intern/co-op employment, as well as professional employment upon graduation. To accomplish this, the staff of Career Services:

• Coordinates an extensive on-campus interview program.
• Provides web resume books to enhance students’ visibility to employers.
• Maintains and refers candidates’ credentials to prospective employers.
• Posts current job openings online.
• Conducts career planning and job search classes and workshops.
• Maintains a Career Information Center.
• Hosts career fairs.
• Assists students on an individual basis with their career development and job search needs.
• Coordinates the University’s internship/cooperative education program.
• Maintains a website at www.ou.edu/career.

Center for Leadership Development

Center for Leadership Development
Oklahoma Memorial Union, Room 253
(405) 325-4020  www.leadership.ou.edu

The Center for Leadership Development:

• provides leadership learning opportunities available to all students via workshops, seminars and educational experiences,
• serves as a clearinghouse for leadership materials,
• provides consulting and facilitation services to student groups, and
• recognizes exemplary student accomplishments through the coordination of the campus awards program.

Center for Student Life

Center for Student Life
Oklahoma Memorial Union, Room 370
(405) 325-3163 or (405) 325-6873  www.csl.ou.edu

The Center for Student Life is dedicated to the development of programs and services designed to help a diverse student body achieve their educational goals, objectives and to enhance the overall quality of campus life. This mission is accomplished through the delivery of services and activities to include the following:

• Academic Support
• American Indian Student Services
• Adults Returning to School
• Latino Student Services
• McNair Scholars Program
• New Student Orientation
CAMPUS ACTIVITIES
The Center for Student Life provides support for the more than 300 registered student organizations at the University of Oklahoma. Whether it be a culturally-rich campus powwow, Eve of Nations or Black History Month activities, or other campus-wide events like Homecoming and Sooner Scandals, student involvement plays a critical role in overall student success and satisfaction.

LEADERSHIP
Developing leaders for the new millennium is a major focus for the Center for Student Life. Leader-scholar programs are offered through the Center including the Advantage Scholars, International Leadership Class, President’s Achievement Class, Transfer Leadership Class, Gates Millennium Scholars, Retention Interns, Henderson Scholars, Sooner Tradition Scholars, and McNair Scholars.

PEER SERVICES
Peer support services offered through the Center for Student Life demonstrate the department’s commitment to providing academic, social, and personal support. Student leaders deliver supplemental instruction, new student orientations, retention activities, and other projects which contribute to the overall quality of campus life.

Counseling and Testing Services
Counseling and Testing Services offers a variety of services to help students, faculty and staff grow personally, understand themselves, and develop mutually satisfying relationships with friends and family. In addition to short-term counseling and limited psychiatric consultation, the professional staff offers assistance in exploring and assessing aptitudes, interests and abilities that are important to career planning. Many standardized admissions and assessment tests such as the ACT, SAT, GRE, TOEFL, MCAT, LSAT and others, are available through this office.

Disability and Judicial Services
The Office of Disability and Judicial Services is responsible for the day-to-day administration of the University’s Office of Equal Opportunity in accordance with prevailing University discrimination grievance procedures. Judicial Services is responsible for the day-to-day administration of the University discipline system and for all aspects of due process under the Academic Misconduct Code. This office also addresses all appeals of trespass warnings for both affiliates and non-affiliates.

Housing and Food Services
Housing and Food Services
Room 126, Walker Center
(405) 325-2511, www.housing.ou.edu
Housing and Food Services provides inviting, high-quality, and cost-effective residential and dining services, meeting the needs and desires of a diverse student population. Through academic and nutritional support, as well as cultural and social programming, Housing and Food Services provides students an opportunity to develop lifetime leadership, interpersonal and community skills in a well-maintained, convenient, fun, and safe living and dining environment; and provides employees with a work environment of professionalism, cooperation, and pride that will transfer to students.

Housing and Food Services administers, operates, and maintains the University’s residence halls, apartments, and food service facilities. Residence halls and apartments are designed to accommodate both single and married students and flexible meal options are provided to meet the needs of all students.

Housing assigns students to the towers and quads taking into account a student’s preference for a roommate. For those meeting specific criteria, students may choose to reside in one of three University apartments, each of which is serviced by the Cleveland Area Rapid Transit (CART) system.

Full-time professional and part-time para-professional staff manage all housing facilities to ensure residents’ needs are addressed as well as to sponsor social, cultural, and educational programs and participation in community service activities. Student government is also represented in Housing through the Housing Center Student Association. The Student Food Service Advisory Committee also provides input to administrators.

The residence halls and apartments provide opportunities for students to experience independence, development, and personal growth.

All inquiries regarding residence hall and apartment accommodations should be directed to Housing and Food Services, 1406 Asp Avenue, Room 126, Norman, OK 73019-6091; (405) 325-2511, or 1-888-416-9524; FAX: (405) 325-7117; or info@housing.ou.edu.

RESIDENCE HALLS
Five residence hall options are available: Towers—12-story air conditioned high rises with semi-private baths; Quads—four-story buildings, available in either air conditioned or non-air conditioned, with community bathrooms; Sooner Center—living among student athletes in air conditioned rooms; and Special-Interest Housing—Academic Arts, National Merit Scholars floor, International House, graduate students, and ROTC are available dependent upon space.

Costs are dependent upon center chosen, single or double occupancy, and meal plan selected. The residence hall contract is binding for a full academic year.

FOOD SERVICES
Food service is offered in buildings located across campus. Flexible meal plans are available for students. The food services staff is trained to take care of students’ nutritional needs. Dietary consulting is available to all students through Student Health Services.

RESIDENCE HALL STAFFING, PROGRAMS, AND SERVICES
In addition to the full-time professionals and para-professionals managing the residence halls, student employees known as resident advisers are
assigned to live among the students in the residential communities and: sponsor social, educational, and cultural programming; promote recreational, intramural, and community-service activities and opportunities; provide leadership and guidance; serve as resource for campus information and events; and support building and community security. Each resident adviser has been trained in a variety of areas such as counseling, emergency response, and mediatory intervention to maximize the benefits of residential living.

Additional social, educational, and cultural opportunities are offered through food services, including multi-cultural meals, holiday events, campus picnics, and student planned programs.

Academic support services available in the residence halls include:
• access capabilities to the campus computer network in each room;
• three computer labs;
• free tutoring;
• test files;
• faculty-in-residence, and
• adopt-a-faculty.

FACULTY-IN-RESIDENCE
A distinguished member of the University faculty and the faculty’s family reside in the residence halls among the students during the academic year. The faculty member holds office hours, sponsors and hosts speakers, and dines with the students.

APARTMENTS
Housing oversees three University apartment units. Rent varies dependent upon whether the apartment is: unfurnished or furnished; one or two bedrooms; and all bills paid. Amenities differ among the apartments ranging from swimming pools to basketball and tennis courts, to volleyball courts and playground equipment. Each apartment unit is also serviced by the Cleveland Area Rapid Transit (CART) system. All Housing and Food Services operations are available to apartment residents. Contact University Housing and Food Services for more information on University apartments.

HOUSING REQUIREMENTS AND POLICIES
An OU Regents’ requirement stipulates that an unmarried freshman student meeting any of the following criteria must reside in housing:
• student is not 20 years of age at the beginning of the student’s entering semester;
• student has not completed 24 credit hours in residence; or
• student has not lived in the residence halls for two semesters.
To request an exception from this OU Regents’ requirement, a student must submit a housing exemption request for approval in advance to Housing and Food Services. Housing and Food Services exemption requests are available from Housing and Food Services.

Student applicants for the University apartment units must also meet the Regents’ requirements as follows:
• student must be 20 years of age; or
• student must have completed 24 credit hours; or
• student must be married.

HSC Student Affairs

HSC Student Union
1106 North Stonewall, Suite 300
Oklahoma City, OK 73117-1200
(405) 271-2416
www.student-affairs.ouhsc.edu

HSC Student Affairs is dedicated to the support and enhancement of the academic mission of the university. The office provides programming and services to both current and prospective students. Programming is structured to complement the student’s academic experience, celebrate the rich diversity of the campus, provide opportunities to develop leadership skills and participate in community service, and offer an entertaining and safe social atmosphere. Services are offered to ensure the physical, emotional, and mental health of all students and provide guidance toward a career as a health care professional. For a campus tour, assistance with writing assignments, counseling services, and campus life information, please contact HSC Student Affairs. In addition, HSC Student Affairs coordinates the HSC Campus Awards Ceremony, advises the HSC Student Association and oversees the registration of all campus organizations.

HSC STUDENT UNION
(405) 271-3606
The Student Union is home to HSC Student Affairs, Financial Aid, a branch office of the Bursar, the HSC Student Association, and the IT Helpdesk. The Student Union also offers banking services via Stillwater National Bank, including an ATM, a Food Court, a fully equipped fitness center, a sand volleyball court and basketball court. Multipurpose rooms, including the Boren Lounge, offer students a quiet and relaxing place to study or chat with friends. While the HSC Student Union facility is devoted to the HSC community, the surrounding community utilizes the facility for meetings, retreats, parties, and wedding receptions. HSC Students are granted 24-hour access with a valid HSC Student ID.

Oklahoma Memorial Union

Oklahoma Memorial Union
OMU Administrative Office, Room 428
(405) 325-2121
www.union.ou.edu

The Oklahoma Memorial Union is a place for students to study, relax, meet and eat. The Union has several comfortable lounges, a game room, and a dance floor. The food court houses seven restaurants, one of which is open 24 hours a day. In addition, there is also a student art gallery, a travel agency. United States post office, a copy shop, and a branch of the university bookstore. The Union has a 24-hour computer lab, over 100 network connections and wireless internet available throughout most of the building. The Union has several rooms available for rent and can provide catering for meetings, dances, receptions, banquets and more. The Union is open 24 hours a day, seven days a week, 364 days a year.

OU Health Services

OU Health Services
620 Elm Avenue
(405) 325-4441–appointments; (405) 325-4611–general switchboard
http://goddard.ou.edu/healthservices

OU Health Services offers a wide variety of outpatient medical services to students enrolled at the University of Oklahoma. In addition to the Medical Clinic, services include a full service Pharmacy providing convenient prescription dispensing and over-the-counter medications; X-ray imaging by registered technologists; experienced rehabilitative care by licensed therapists in the Physical Therapy department, federally certified testing in the Laboratory; comprehensive women's health care in the Women's Center; and many health lifestyle programs presented by the Health Education and Wellness department.

Students may visit with any available provider or choose a personal provider for all of their scheduled appointments. The nursing staff provides initial work-ups, health assessments, educational and therapeutic services, administration of allergy injections, and travel immunizations.

For more information concerning OU Health Services providers and services, please call (405) 325-4611.

Recreational Services

Recreational Services
Huston Huffman Center
(405) 325-3053
www.ou.edu/imrecsports
The newly renovated and expanded Huston Huffman Recreation Center is the cornerstone for student fitness and recreation on Campus. The majority of the recreation space is dedicated to a state-of-the-art weight room, cardiovascular center and basketball/volleyball courts. In addition, the facility also features a climbing wall, a one-sixth mile three lane running track and racquetball and squash courts.

The Intramural sports program offers students thirty-two recreation opportunities ranging from flag football to table tennis. Fitness classes such as aerobic step, deep water aqua aerobics, kickboxing, yoga and spin cycling are extremely popular student programs. A juice bar and student lounge equipped with wireless internet access also provide students with passive recreation opportunities.

PROSPECTIVE STUDENT SERVICES

Prospective Student Services
550 Parrington Oval, Jacobson Hall, Room L-1
Norman, OK 73019-0520
(405) 325-2151 or 1-800-234-6868
www.go2.ou.edu E-mail: ou-pss@ou.edu

In Tulsa:
4502 E. 41st St.
Tulsa, OK 74135
(918) 660-3800
FAX: (918) 660-3804

In Texas:
4630 Payne St.
Dallas, TX 75238
1-888-298-0890

Prospective Student Services is the visitation/information headquarters for OU. Staff members in this area assist prospective undergraduate students, both freshmen and transfers, with the admission process. Information is provided on admission requirements, financial aid, scholarship opportunities, housing and student life. Prospective Student Services also provides daily tours of the campus to prospective students and their parents, and other University guests.

Prospective Student Services-Tulsa coordinates similar services for high schools and two-year colleges in Tulsa and northeastern Oklahoma communities. There are also representatives in the Dallas/Ft. Worth and Houston areas.

Prospective Student Services is a service-oriented, primary contact for first-time entering students. Inquiries concerning undergraduate admission, including requests for applications and informational brochures, should be directed to the Norman, Tulsa, or Texas offices.

DIVERSITY ENRICHMENT PROGRAMS

Diversity Enrichment Programs
Jacobson Hall, Room 201
Norman, OK 73019-0520
(405) 325-3742, or 1-800-234-6868
www.dsa.ou.edu/depts/pss/dep

Prospective multicultural undergraduate students, including transfers, are recruited and assisted in the admission process by Diversity Enrichment Programs. In addition to providing information on admission requirements, financial aid, scholarship opportunities and housing, Diversity Enrichment Programs works closely with OU’s Center for Student Life to provide details on special programming for multicultural students.

NATIONAL SCHOLARS PROGRAMS

National Scholars Programs
550 Parrington Oval, Jacobson Hall, Room 104
Norman, OK 73019-0334
(405) 325-1290 or toll-free 1-877-506-7353
www.go2.ou.edu/national-scholars.htm

OU is committed to the recruitment and retention of National Scholars from across the country. National Merit Finalists qualify for an exceptional scholarship package. Students in the program receive highly personalized attention in addition to early enrollment and specialized academic advising privileges.

The University of Oklahoma 2003-2006 General Catalog

Student Media

Student Media
149-A Copeland Hall
(405) 325-2521 www.studentmedia.ou.edu

Student Media coordinates a variety of media products, activities and services that strengthen the educational experience for students interested in journalism and related fields. At the same time, it is the department's mission to enhance the sense of community and overall quality of campus life for the diverse student body at OU by providing an unrestricted forum for the exchange of ideas.

With this in mind, this self-supporting department in the division of Student Affairs employs more than 100 students each year to produce national award-winning media, including The Oklahoma Daily, a newspaper for the university community, oudaily.com, the state’s first online news site, and Sooner, the university’s yearbook.

Students gain hands-on experience as advertising representatives, writers, copy editors, designers, photographers, editors, online technicians and production personnel, with guidance from full-time professional staff.

THE OKLAHOMA DAILY AND OUDAILY.COM

With an emphasis on campus and local news coverage by staff reporters, The Oklahoma Daily has provided free, morning newspaper service to the university community since 1916. Wire services offer state, national and international news.

Students serve in paid and volunteer positions to provide coverage of the campus community in Monday through Friday newspaper issues and online, at oudaily.com. State-of-the-art technology insures the experience is valid for today’s commercial publishing industry. Students are highly marketable for internships and jobs after graduation because they have practical skills and daily deadline experience, and they understand the intricacies of the newspaper business.

COVEREAGE

While student staff members determine the content of Student Media products, readers play a role in what goes into print. Press releases, news tips and other information may be submitted for consideration, and editors encourage reader ideas and input. Student organizations and campus departments are encouraged to submit items for Campus Notes, a daily feature of the newspaper; details are available online at oudaily.com.

ADVERTISING

Like most newspapers, The Oklahoma Daily stays in business by accepting advertising. Classified ads run in every regular issue of the newspaper and are placed through the Student Media business office. Display advertising is coordinated through student advertising account executives, who regularly meet with business and campus representatives to plan marketing strategies. Student organizations and university departments qualify for special discount rates on advertising; design services and media planning are included. Yearbook and online advertising is handled through national, specialty advertising services.

SOONER YEARBOOK

A staff of student editors, designers, writers and photographers produce Sooner yearbook, a university tradition that began in 1905. The book provides coverage of the full school year in magazine-style feature presentation, and group and individual photographs. Student staff gain experience for magazine work and related professions, and have received numerous regional and national awards for their work.

STAFF

Student staff positions are available in a variety of areas and most are paid. Hours and responsibilities vary. Interested students may contact Student Media or check online at www.studentmedia.ou.edu. Primary hiring times are April, for summer and fall positions, and November for spring openings.
University College

Mission of the College

Founded in 1942, University College was one of the first academic units in the United States to focus on meeting the special needs of new students. University College is the entry point for all new undergraduate students who come to the University of Oklahoma directly from high school, as well as many transfer students. It is also the academic home of all pre-health professions majors and many students who have not yet decided on an academic major. The Assessment and Learning Center, located on the second floor of Carnegie Building, is a part of University College and contributes to its mission.

The primary mission of University College is to assist new students in making a successful transition to the University and building a solid foundation for further academic success. The staff of the College provide academic advising, assessment, career counseling, orientation, and other services designed to familiarize students with the university and its programs and to foster academic success. The services of the college are available to all students of the university, and the staff of the college provides information and assistance to all who seek it.

Academic Advising

While enrolled in University College, students will typically take courses common to all degree programs at the university. These include two courses in English composition, three hours in American history, and three hours in United States government (political science). Students will also enroll in courses required for general education, courses required for the major, or courses designed to explore various fields of interest. Students may also take courses to supplement their high school background or to help them be successful in college.

Students whose American College Test (ACT) scores indicate high aptitude for college work have many opportunities to tailor their programs to their particular abilities. If they have taken high school courses that are equivalent to college work, they may be encouraged to omit certain freshman courses and move into more advanced courses. If they need college credit for the courses omitted, they may take advanced standing examinations to earn that credit. Students should take such action only after discussion of their individual needs and objectives with an academic counselor. Qualified students are also encouraged to apply to the Honors College.

Entry Into a Degree- Recommending College

A student may be admitted into one of the degree-recommending colleges on the Norman campus if he or she has declared a major, and completed 24 or more credit hours of college-level work with a combined retention grade point average required for graduation from that college. Admission to the degree-recommending colleges at the OU Health Sciences Center requires a separate application process and is governed by requirements unique to each college or program.

Career Development Services and Advising for Undecided Students

Many students in University College have not yet chosen an academic major, and at least half of the students who have declared a major will change their minds during their first year. University College offers students the unique opportunity to take a semester or more to explore different
career options and academic majors. Rather than being forced to make a premature decision, students are encouraged to evaluate options by enrolling in exploratory classes, participating in inventories designed to assess abilities and interests, and interacting with academic counselors who are experienced in working with undecided students.

e-REPLACE and e-CIGI PLUS are computer-based systems designed to aid students with the process of making a decision about a career and are available to all OU students through University College and the Assessment and Learning Center. These programs allow students to explore careers and the relationship between choosing a career and choosing an academic major. Both web-based programs are accessible 24 hours a day, every day, online. The college’s academic counselors can meet with students and, using results from either program and other career information, help students narrow their decisions about careers and majors.

Additional help with career development is available to students from the career information library housed in the Assessment and Learning Center.

Pre-Health Professions Advising
University College advises students seeking to enter professional health fields such as communication sciences and disorders, dental hygiene, nursing, nutritional sciences, occupational therapy, pharmacy, physical therapy, physician’s associate, and radiologic technology. The assistance of an academic counselor is especially important to the pre-health profession student who wants to complete his/her admission requirements while maintaining a competitive grade point average for admission to the University of Oklahoma Health Sciences Center.

CARE Program
The Counseling and Assistance for Retention Effectiveness (CARE) program is an intensive advising program for students with potential academic problems. The program is designed to help students learn about and take advantage of the academic support systems available at OU. Students are identified on the basis of various factors that predict success in college, including high school grades, ACT scores, poor class attendance and mid-term grade reports. Each CARE student works out a contract with his/her assigned academic counselor.

Making the Transition to College:
Two Courses for Freshmen
Making the transition from high school to college is always challenging and sometimes difficult. Freshman students must adjust to new intellectual standards, find new social relationships, and make appropriate decisions about significant events, often for the first time in their lives. Perhaps the biggest challenge of all is finding the necessary support to help understand and respond to these changes.

To provide this kind of support the University of Oklahoma created two separate multi-section courses with enrollment limited to 28 freshmen per section.

The first course, “Gateway to College Learning,” takes a direct approach in the study of three areas: success in academic life, success in personal life, and success in accessing resources at the University. The course covers such topics as time management, study skills, building community with people of diverse backgrounds, and maintaining physical and mental well-being.

The second course is a series of “Freshman Seminars.” Students study a specific topic with a professor who has a particular interest and special research skills in that area. The intent is that the professor will share enthusiasm about the research subject with the students, exciting them about the learning process through a unique topical approach.

President’s Distinguished Faculty Mentoring Program
In the President’s Distinguished Faculty Mentoring Program students and experienced faculty mentors are matched to help create nurturing and personal relationships, thus easing the transition from high school to college. This program provides the opportunity for a student to build a connection with faculty and gain valuable life experience. It is a chance to become acquainted with someone who is personally interested in the student’s success and who can guide a student through the complexities of university life. The minimum expectation of the mentoring program is that the student will meet with the mentor twice during the fall semester, once in a group setting, then individually. To participate, a student will enroll in UNIV 1210. This is a zero-credit course, which costs nothing. A student who participates throughout the semester will receive a “S”.

PACE Awards
Each spring University College recognizes freshman students in the top 1% of their entering class based on Participation in campus activities and events, Academic achievement (3.25 minimum fall OU GPA), Community Service completed during the fall term, and Excellence in Leadership. Eligible freshmen may be nominated by a faculty or staff member, or students my self-nominate. PACE awards are presented at a special University College ceremony during Mom’s Weekend in April. PACE winners are also recognized at the all-campus awards event that same weekend.

Alpha Lambda Delta, National Freshman Honor Society
The national freshman honor society, Alpha Lambda Delta, is sponsored by University College. Students must have completed a minimum of 12 letter-graded semester hours during the fall term with no less than a 3.5 OU GPA and no grades of I, N, D, F, or U. A one-time payment of national and local dues provides lifetime membership and opportunities for both national and local scholarships. Letters of invitation to qualified freshmen are mailed in February and Alpha Lambda Delta initiation is held during Mom’s Weekend in April. Parents are invited to attend the ceremony.

Center for Student Advancement
The Center for Student Advancement (CSA) is committed to enhancing the educational experience of students at the University of Oklahoma by providing programs and services that promote retention and academic success. CSA strives to help OU students navigate the process of changing majors/colleges after experiencing academic challenges, help OU students develop an action plan to stay on track to accomplish their educational goals and help OU students complete their degrees.
Summer Advance Enrollment/ Orientation Program
Beginning in mid-May and continuing for most of the summer, University College provides an enrollment and orientation program for new OU students. Students and their parents spend a day on campus in small groups, accompanied by university guides who are current OU students. Activities include learning about OU, taking assessment tests to ensure proper placement in classes, meeting with an academic counselor to discuss majors and select courses, sessions specifically for parents, visiting other campus services and resources, and enrolling in fall classes. Students leave the campus feeling comfortable about OU, with an appropriate schedule, and a sense of what they can look forward to in the fall.

Entry-Level Assessment
The Assessment and Learning Center provides assessment and testing services for new and transfer students to give them the best possible chance of success in attaining their academic goals. All new students at the University of Oklahoma will be assessed in three areas: reading, English and mathematics. The American College Test (ACT) or the Scholastic Aptitude Test (SAT) will be used as the preliminary screening instrument. Students scoring at certain levels may be placed in developmental coursework or further evaluated with a computerized placement examination and/or a writing sample. These tests are used to provide academic counselors with information on students’ current skill levels. If the test results indicate a need for improvement in any of these areas, an academic counselor can help students select courses designed to develop or enhance skills.

Student Success Series
Free, non-credit seminars are offered by the Assessment and Learning Center to help students learn college survival skills. Topic areas ranging from time management to career decision-making are covered each semester to help students successfully make the transition from high school to university life.

University College Enrollment Policies
ALL-UNIVERSITY ENGLISH REQUIREMENT
All University of Oklahoma students must complete a university writing requirement, consisting of six hours of English Composition (English 1113 and 1213). Any student who has not fulfilled the requirement is encouraged to enroll in English.

PASS/NO PASS OPTION
Freshman students in University College may not enroll in courses on a P/NP basis. Students in University College who are above freshman standing may enroll in courses on a P/NP basis only if they have a declared major and the approval of that major department.

FORTY-FIVE HOUR RULE
Students who have attempted 45 or more semester hours, based on grades of A, B, C, D, F, I, P, NP, S and U, may enroll or continue to enroll in University College only with a 2.00 or higher grade point average in their last OU enrollment period or with a 2.00 or higher OU retention grade point average.

CORRESPONDENCE COURSES
Students suspended from University College are not eligible to take correspondence courses at the University of Oklahoma.

ACADEMIC PROBATION
University College students on academic probation must be advised by an academic counselor in University College before they may enroll for the next semester.

STUDENT RESPONSIBILITIES
All colleges and universities establish certain requirements that must be met in order to earn a degree. These include coursework in both general education and specific major areas, as well as compliance with academic standards and policies. Although academic counselors and departmental advisers are available to help students plan their programs of study, the individual student has a three-fold responsibility in this regard: (1) to know his/her academic standing relative to published standards; (2) understand the published degree requirements; and (3) to know and observe academic calendar deadlines, as printed in the official Class Schedule.
College of Architecture

Gould Hall, Room 162
Norman, OK 73019-6141

Internet: http://www.ou.edu/architecture/

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Administrative Officers

Bob G. Fillpot, FAIA, M.D.S., Dean
James R. Patterson, AIA, M. Arch., Associate Dean
James L. Kudrna, M. Arch., Director, Division of Architecture
Kenneth F. Robson, AIC, CPC, M.S., Director, Division of Construction Science
Cheryl Reece Myers, Ed.D., ASID, IDEC, Assoc. AIA, Director, Division of Interior Design
Richard S. Marshment, Ph.D., AICP, Director, Division of Regional and City Planning
Thomas W. Schurch, Ph.D., ASLA, AICP, Director, Division of Landscape Architecture
Theresa M. Marks, Coordinator, Administrative Student Services
Deborah Snider, B.A., Assistant to the Dean

General Information

The College of Architecture is a comprehensive, multi-disciplinary unit concerned with the planning, design and construction of the built environment. The college is comprised of the divisions of Architecture, Construction Science, Interior Design, Landscape Architecture, and Regional and City Planning. A graduate program in Architecture, focusing on Urban Design, is also offered by the OU College of Architecture at the Schusterman Center in Tulsa.

Students in the college develop the capacity for critical analysis of the context and constraints of physical design, formulate planning and design goals, and acquire specialized skills to attain these goals. Individual professional degree programs offered under the divisions within the college have complementary theory and practice components. The curricula are strengthened by deliberate sharing of courses and by the interaction of faculty and students across division boundaries. Students in the programs have the unique opportunity to work with others preparing to enter related professional fields, as well as exposure to practicing professionals in these fields.

DEGREES OFFERED

Undergraduate degrees offered by the College of Architecture are the Bachelor of Architecture, accredited by the National Architectural Accreditation Board (N.A.A.B.); Bachelor of Science in Construction Science, accredited by the American Council for Construction Education (ACCE); and the Bachelor of Interior Design, accredited by the Foundation for Interior Design Education and Research (FIDER). The college also offers a pre-professional Bachelor of Environmental Design degree. Graduate degrees offered jointly with the Graduate College are the N.A.A.B.-accredited Master of Architecture, the L.A.A.B.-accredited Master of Landscape Architecture, Master of Regional and City Planning, accredited by the Planning Accreditation Board (PAB), and the Master of Science in Construction Administration.

The college offers individualized programs also resulting in the Bachelor of Science in Environmental Design degree. Please refer to the section entitled Environmental Design Studies for more details.

A program within the College of Engineering permits undergraduate students to pursue a pre-architecture sequence for application to the Master of Architecture degree program.

Admission criteria and curricular information for all undergraduate and graduate degree programs in the College of Architecture are included in this catalog.

DISTINCTION AND SPECIAL DISTINCTION

Students who complete their undergraduate degree in the College of Architecture may be granted a degree of distinction if they have achieved the required grade point averages. The degree with Distinction will be conferred on students who achieve at least a 3.50 retention grade point average in their OU and combined grade point averages. The degree with Special Distinction requires at least a 3.75 retention grade point average in
the OU and combined grade point averages. The final semester’s grades will be included in the grade point averages that determines the Distinction or Special Distinction degree.

HONORS DEGREES
All of the bachelor’s degree programs offered by the College of Architecture are available to qualified students as honors degree programs. Student may be graduated with honors (cum Laude, Magna cum Laude, Summa cum Laude) if they successfully complete all requirements of the Honors College in addition to their regular degree program requirements. Please refer to the Honors College section of this catalog for specific information concerning admission and completion of honors degrees.

RECOGNITION OF ACADEMIC ACHIEVEMENT

Dean’s Honor Roll
The College of Architecture’s Honor Roll is compiled at the close of each fall and spring semester. It includes students who have completed at least 12 grade point hours and have earned an average of 3.33 or higher for the semester.

Students enrolled part-time for both the fall and spring semesters of an academic year will be included on the spring semester honor roll, provided that a 3.33 or better is earned for each semester.

Scholarships and Awards
Contact the College office or refer to our home page (www.ou.edu/college) for details about College scholarship opportunities. Application deadlines are in early spring.

Many scholarships and awards are provided by professional societies, the building industry, and patrons of architecture and the allied arts. The University of Oklahoma has many general financial aid programs which are listed on the Financial Aid web page (www.financialaid.ou.edu) or found in the University’s publication A Guide to Scholarships and Financial Aid. The Guide is available online or from the Office of Financial Aid Services, 1000 Asp Ave, Room 216, Norman, OK 73019-4078.

Honor Societies and Professional Organizations

Construction Students Association—An umbrella organization of construction student chapters of AGC, NAAB, and ABC.

Interior Design Student Association—An umbrella organization related to interior design professionals of ASID, NDA, IES, and DC.

The American Institute of Architecture Students—A student chapter affiliated with the national professional organization, open to all majors in architecture.

Student Association, Organization of Black Designers—A student chapter affiliated with the national professional organization, open to all majors.

Student Chapter, International Facility Management Association—A student chapter affiliated with the national professional organization, open to all majors.

Student Chapter, American Indian Council of Architects and Engineers—A student chapter affiliated with the national professional organization, open to all majors.

Student Chapter, American Planning Association—A student chapter affiliated with the national professional organization.

Student Chapter, Associated General Contractors of America—A construction science student chapter affiliated with the national professional organization.

Student Chapter, National Association of Home Builders—A student chapter affiliated with the national professional organization.

Student Chapter, American Society of Interior Designers—A student chapter affiliated with the national professional organization, open to all majors in interior design and architecture.

Student Chapter, American Society of Landscape Architects—A student chapter affiliated with the national professional organization, open to all majors in landscape architecture.

Alpha Rho Chi—A professional fraternity for students in architecture and allied arts.

Admission
Admission to the University of Oklahoma (Norman Campus) and subsequently a degree granting college is based upon the admission requirements that are in effect for the semester that a student initiates enrollment at OU. For information on the admission requirements, contact the Office of Admissions, University of Oklahoma, 1000 Asp Ave., Norman, OK 73019-4076 or visit their homepage at www.ou.edu/admissions.htm.

Admission to an undergraduate program within the College of Architecture is based upon the program requirements in effect at the time of a student’s initial enrollment in any institution (including OU) in the Oklahoma State System of Higher Education. All first-year students direct from high school are enrolled in University College. All students seeking admission to a program within the College of Architecture must fulfill the following minimum requirements:

1. Completed admission to the University of Oklahoma;
2. At least 24 semester hours of earned college credit;
3. Completion of any curricular deficiencies that may exist in English, Math and/or Science;
4. A declared major in the College of Architecture; and
5. Obtain at least the minimum combined retention grade point average required for graduation from the program he or she has declared. All undergraduate programs in the College of Architecture require additional admission requirements beyond those listed above. Refer to the respective division section in the following pages for additional information regarding additional program admission requirements.

TRANSFER STUDENTS
An undergraduate student transferring from an institution within the Oklahoma State System of Higher Education must fulfill the transfer admission requirements of the University of Oklahoma Office of Admissions. For more information, visit their website, www.ou.edu/admissions.htm.

A student requesting transfer into a program of the College of Architecture from another institution will be considered for admission on a space-available basis, regardless of prior grade point average. Such an applicant, in addition to satisfying all admission requirements of the University and the College, must be approved by the division director for that particular major.

A student requesting to transfer into a program of the College of Architecture from another institution outside of the Oklahoma State System of Higher Education will follow the most recent curriculum requirements for the major he/she declares in addition to meeting the above requirements.

TRANSFER CREDIT
The following credit hour regulations are specific to transfer students:

1. A maximum of 64 hours of transfer credit from a two-year college will apply to any undergraduate program in the College of Architecture. Two-year college work is accepted only as lower-division credit.
2. At least 60 semester hours applied toward completion of a baccalaureate degree must be earned at accredited senior (four-year) institutions.
3. A student must have received a grade of C or better in coursework taken at institutions not within the Oklahoma State System of Higher Education in order for the courses to be considered for transfer credit.
4. Credits earned in physical education courses or in basic ROTC courses cannot be applied toward the graduation requirements of any degree program of the College of Architecture. Advanced ROTC courses may be applied toward degree requirements only with the special permission of the dean.
5. All professional courses not taken at the University of Oklahoma are subject to evaluation for equivalency by the appropriate division of the College prior to the approval of transfer credit.

6. Work accepted from other institutions is subject to validation by the satisfactory completion of at least 30 hours of credit in residence.

7. Any student enrolling for the first time at the University of Oklahoma in a design or graphics course offered by the College of Architecture must enroll in the first course in the sequence, unless specifically approved for higher placement based on a review by the appropriate division director of previous work completed by the student.

8. College credit for work experience is permitted only under the supervised conditions of the Preceptor Program of the College or approved internship/field experience courses.

**ADMISSION LIMITATIONS**

Due to limitations in facilities, operating budgets and faculty size in the College of Architecture, admission to the various degree programs within the College is considered on a space-available basis only. Enrollment restrictions are most common in professional programs and courses subject to national standards of professional accreditation review.

**Special Regulations**

**PROBATION AND ADVANCEMENT**

In accordance with the approved retention policy of the Oklahoma State Regents for Higher Education a student must maintain a combined retention minimum grade point average of at least 2.00 (C) in order to be in good standing at the University of Oklahoma. He or she must maintain at least the minimum OU retention and combined retention grade point averages required for graduation from any of the undergraduate programs within the College of Architecture in order to be in good academic standing within the College. A student who earns less than the required grade point averages for his/her program will be notified and required to sign an “Enrollment Contract” each semester his/her retention grade point average is below the minimum required for graduation. A student on enrollment contract may be denied further enrollment in the college if he or she fails to fulfill the terms of the enrollment contract during any semester he/she is on academic notice.

A student who is denied enrollment in the College of Architecture may still be eligible for enrollment in another college within the University of Oklahoma. Students who have been dismissed from the College of Architecture for academic reasons should contact the Center for Student Advancement for advisement regarding continued enrollment at the University of Oklahoma. The Center for Student Advancement is located in Old Science Hall, room 311, or call 325-2574. If a dismissed student from the College of Architecture decides to continue at the University of Oklahoma, further enrollment in College of Architecture courses will be denied.

A student denied enrollment in the College of Architecture may apply for readmission after a lapse of one regular semester (fall or spring). The student must submit a letter stating why he/she should be readmitted (what caused the poor academic performance and how the problems causing the poor academic performance have been remedied.) Such a request will be reviewed and decided upon by the appropriate division.

If it is the first academic stop, the student’s record will be reviewed to determine if it is possible for the student to earn the required grade points in the courses that remain to complete the degree and graduate.

If it is the student’s second academic stop, he/she will automatically be denied readmission.

**ATTENDANCE**

The establishment of specific policy concerning attendance requirements, as well as announced and unannounced examinations, is the responsibility of the individual instructor.

Regular attendance in required studio courses is considered essential to the overall development of the student within the professional and pre-professional curricula.

**STUDIO REGULATIONS**

A student may enroll in only one design and one graphics course per semester. Any student who enrolls in a studio course with an incomplete in a prerequisite must remove the incomplete prior to the first day of class.

**OWNERSHIP OF WORK**

All work completed or submitted in fulfillment of any requirements of a course in the College of Architecture is the property of the College, which reserves the right to retain, copyright, use, exhibit, reproduce or publish any work so submitted.

**OUTSIDE EMPLOYMENT**

The demands of outside employment during the academic year, with the exception of an approved preceptorship program or internship, may be inconsistent with the requirements of the professional degree programs. Outside employment is not considered an extenuating circumstance in cases of poor performance, excessive absences or failure to submit assigned work on schedule. Students who fail to adequately fulfill course and curriculum requirements while maintaining outside employment may be required to carry reduced course loads. A longer period in residence may result from this reduction in course loads.

**ENROLLMENT LIMITATIONS**

Undergraduate students may enroll in a maximum of 19 credit hours per any regular semester (fall or spring), nine credit hours in summer, or four credit hours in May, August, or December intersession. Enrollment in more than the maximum credit hours is permitted only with the approval and signature of the student’s adviser and the dean of the College. Enrollment in more than the maximum credit hours for any given enrollment period cannot exceed the Oklahoma State Regents’ absolute maximum for any given enrollment period.

All students enrolled in courses offered by the College are subject to the applicable rules of the College, including those governing performance reviews and enrollment limitations. Students admitted to the professional program in architecture may enroll in any architecture course for which they are eligible. Students who have been accepted as majors in another division of the College of Architecture will be admitted to those architecture courses which are specifically required for their degree programs.

**STUDENT ADVISEMENT**

Students in the College of Architecture are advised by faculty within the divisions offering their degree program. Advising may occur in a one-on-one advising or in group advising session. Contact the division director for specific details.

Due to the complexity of the program sequences, it is necessary that all undergraduate students meet with an adviser during the pre-enrollment periods. In addition to faculty advisers, a full-time academic counselor is available to answer questions about the various undergraduate programs. The College of Architecture requires semester-by-semester advising. Students are not permitted to self-advice.

**GRADUATION REQUIREMENTS**

Approval for graduation with a degree from the College of Architecture requires completion of all degree requirements listed on the curriculum requirements checksheet for the program the student was admitted as well as the graduation requirements set forth by the Oklahoma State Regents for Higher Education, and the University of Oklahoma. The specific degree requirements for the current academic year in the College of Architecture are available on the Internet at http://www.ou.edu/bulletins/degree-sheets/. Copies of current or past checksheets can be obtained from the College’s Administrative Student Services Office, room 155 Gould Hall.

In addition to the minimum graduation requirements set forth by the Oklahoma State Regents for Higher Education and the University of Oklahoma, the College of Architecture requires the following:

1. A student must obtain the minimum OU retention, combined retention and curriculum grade point averages specified on the requirements check sheet for his or her degree program. **Note:** Specific grade point averages required for graduation from programs within the college su-
persede the minimums set forth by the Oklahoma State Regents for Higher Education and the University of Oklahoma.

2. A student must complete at least the minimum upper division (3000 level or above) and total hours listed on his or her program requirements checksheet. Total credit hours applied toward graduation must be verified by the academic counselor in the Administrative Student Services Office, 155 Gould Hall. Students are encouraged to meet with the College’s academic counselor for a degree check at least one semester before the intended semester of graduation. The following are additional College of Architecture regulations total hours applied toward graduation:

a. credit hours earned in physical education courses or in basic ROTC courses cannot be applied toward the graduation requirements of any degree program of the College of Architecture. Advanced ROTC courses may be applied toward degree requirements only with the special permission of the dean;

b. a maximum of 64 hours will transfer for credit from a two-year college;

c. at least 60 semester hours toward graduation must be earned at accredited senior four-year institutions;

d. no hours for remedial or pre-college level coursework may apply toward graduation;

e. transfer coursework specifically denied by the division for application toward the curriculum will not count toward graduation;

2. courses taken under the student elected Pass/No Pass grading option will not be allowed to count toward fulfillment of any university general education or college curriculum requirements.

Additional information about specific program requirements are described under the respective division sections in this chapter. Responsibility for meeting graduation requirements lies with the student.

MINORS

The College of Architecture offers the following minors:

Architectural Studies—Offered to non-majors who complete 15 hours of EN D and ARCH prefix courses. Specific information on courses applicable to a minor is available from the College of Architecture, Administrative Student Services Office, Room 155 Gould Hall.

Construction Science—Students may satisfy the minor requirements in Construction Science by first making application to the minor program, being admitted, and subsequently completing 21 hours of CNS prefix courses including the following core courses: CNS 3113, 3153, 3813, 4153, and 4523. An additional six hours may be taken from CNS courses, as long as all prerequisites for those courses have been met.

Interior Design—Students may satisfy the minor requirements in Interior Design by completing 15 hours of coursework of ID-prefix courses including: ID 2773, 3724, 3733, 3734, 3753, 3763, 3773, 3774, 3783 and 4744.

Landscape Architecture—Students may satisfy the minor requirements in Landscape Architecture by completing 17 hours of coursework in L A-prefix courses including: LA 5243, 5515, 5713, 5723, and 5943.

Special Programs

PRECEPTORSHIP PROGRAM

The College administers a preceptorship program which permits selected students of demonstrated ability to complete a limited number of degree requirements as a participant in a professional office.

SUMMER PROGRAM

Selected courses may be offered during the summer session in the College of Architecture. Course selection and enrollment limitations will be dependent upon the availability of operating funds and faculty. Special summer studies are also offered in international settings.
courses prior to the first day of class in any subsequent architecture course unless otherwise granted permission by the Director of Architecture.

DEGREE PROGRAM AND ARCHITECTURAL REGISTRATION

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as a professionally accredited degree.

The pre-professional degree is useful to those wishing a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in fields related to architecture.

ADVANCEMENT IN MAJOR COURSE SEQUENCES

All professional degree programs of the Division of Architecture are organized around a sequence of courses in which the student develops and demonstrates a capability for analyzing problems and synthesizing solutions, using techniques and skills unique to the field of architecture. Advancement in a major course sequence may be denied if a student earns less than a C in the prerequisite course. Further progress in the studio sequence in such cases may be permitted if the course average is raised by retaking the course, or by special permission.

PORTFOLIO REQUIREMENTS

Each student enrolled in a professional or pre-professional program in architecture is required to maintain an up-to-date record of design and graphics work for use in program advisement and the evaluation of overall progress toward the professional degree.

Undergraduate Study

BACHELOR OF ARCHITECTURE (0202A)

This program, normally five years in length, is accredited by the National Architectural Accrediting Board (NAAB) and fulfills the educational prerequisites for professional registration required by most state boards. Admission to the program by the first year is competitive.

BACHELOR OF SCIENCE IN ENVIRONMENTAL DESIGN—Pre-Architecture (0207A)

This program is a pre-professional degree program normally requiring four years of undergraduate study. It is useful to those wishing a foundation study in the field of architecture, as preparation for continued education in a professional degree program or for employment options in fields related to architecture. In itself, it is not an NAAB-accredited degree and does not, by itself, fulfill the educational prerequisites for professional registration required by most state boards. Because this degree pattern requires completion of professional courses, admission to this program beyond first year is competitive.

BACHELOR OF SCIENCE IN ENVIRONMENTAL DESIGN—General (0201A)

This program is an individualized degree program, administered by the College of Architecture, which normally requires four years of undergraduate study. This degree serves those who have a defined interest in issues of the designed environment, but wish to pursue alternative educational or career goals outside traditional pre-professional or professional degree tracks. Further details can be found in the “Environmental Design” section of this chapter or from the College of Architecture Administrative Student Services Office.

DEGREE PROGRAM ADMISSION

Class size in studios and other architectural coursework is influenced by national guidelines. Limitations of university resources (e.g., facilities, faculty, operating funds, etc.) also impose restrictions on class sizes. Therefore, an Enrollment Management Program within the Division of Architecture governs admission to both the professional and pre-professional undergraduate degree programs (0202A and 0207A). Students compete for a limited number of admissions into the second and third year of these programs. Admission decisions are based on assessment of a student's previous academic record and a dossier of design work and other accomplishments. For further information, contact the director of the Division of Architecture.

Graduation Requirements

Approval for graduation with either the Bachelor of Architecture degree (0202A) or the Bachelor of Science in Environmental Design (Pre-Architecture, 0207A) requires completion of all degree requirements with a minimum program grade point average of 2.50 in all coursework used to fulfill degree requirements.

Collaborative Program

COLLEGE OF ENGINEERING

• Bachelor of Science in Engineering (Pre-architecture)

Admission criteria and curricular information for the collaborative program are available from the College of Engineering.

MINOR

The Division offers a minor in Architectural Studies to non-major students who complete 15 hours of EN D and ARCH prefix courses. Specific information on courses applicable to a minor is available from the College's Administrative Student Services Office.

Graduate Study

GENERAL INFORMATION

The Division of Architecture at the University of Oklahoma operates within the administrative framework and shares the multi-disciplinary philosophy of the College of Architecture. These degree programs follow a structured core curriculum aimed at developing the specialized skills and abilities demanded of the professional architect. Simultaneously, however, these programs are highly individualized and encourage the exploration and development of specialties in areas closely related to architecture. These graduate programs are intended to produce broadly educated graduates who will demonstrate unique capabilities for leadership in the profession.

The one-year Master of Architecture degree is also available through the Schusterman Center in Tulsa. This program, which requires two years, allows students to have full-time office practice opportunities in professional offices. The Master of Science in Architectural Urban Studies degree is also offered at the Schusterman Center in Tulsa.

ADMISSION REQUIREMENTS

In addition to the admission requirements of the Graduate College, the following materials must be submitted directly to the Graduate Liaison of the Division of Architecture for evaluation.

1. A transcript from all previous institutions.
2. A portfolio of work, 8½” x 11” format preferred.
3. A statement, limited to 500 words, of the intent for pursuing graduate studies in architecture at the University of Oklahoma.
4. Three letters of recommendation.
EARLY ADMISSION
A student enrolled in the final semester of undergraduate studies may apply for admission to the graduate program in architecture for the next regular semester following completion of his/her undergraduate degree. Admission to the program will be contingent upon satisfactory completion of undergraduate studies, subject to final review by the division director.

DEADLINES
No application for the graduate program in Architecture will be considered until all supporting documents have been received. It is the applicant’s responsibility to ensure that all required materials are received by the Division Director prior to the application deadline. Late applicants will be considered on a space-available basis only.

1. Application deadline for fall semester—June 1.
2. Application deadline for spring semester—October 15.
3. Application deadline for summer term or session admission—April 1.

Special Regulations
ENROLLMENT LIMITATIONS
Graduate students may enroll in nine to 16 credit hours of work per semester. Enrollment in more than 16 or less than nine credit hours is permitted only with the approval and signature of the graduate liaison and the graduate dean.

GRADUATE ADVISORY COMMITTEE
Each graduate student must establish a graduate advisory committee, consisting of at least three members of the graduate faculty, the majority of whom must be professors in architecture. The advisory committee will assist the student in structuring a program, and periodically evaluate progress toward the professional degree.

GRADUATION REQUIREMENTS
Approval for graduation with the degree of Master of Architecture requires satisfaction of all requirements of the Graduate College and certification by the graduate liaison of completion of all requirements of the graduate professional degree program in architecture, with a minimum grade point average of B (3.00) in all work for which graduate credit is awarded.

TRANSFER OF GRADUATE CREDIT
In addition to the policies of the Graduate College for the transfer of credit hours for master’s degrees, the College of Architecture graduate liaison must approve any work transferred to a Master of Architecture degree program.

Master of Architecture Programs
The Master of Architecture at the University of Oklahoma follows an intensive and structured program of studio design and coursework intended to develop the specialized abilities and expertise demanded of the professional architect. The (0202N) program is accredited by the National Architectural Accrediting Board (NAAB) and fulfills the educational prerequisite for professional registration required by most state boards.

Program emphasis is on sustainability and regional response in architectural design, study and research. Based on availability of faculty interest and expertise, issues such as environmental responsibility, energy conservation, appropriate technologies, resource and facilities management, theories of sustainability, critical regionalism, and sense of place may be investigated.

This program is primarily intended for those who hold a pre-professional degree in Architecture or closely related discipline or a professional degree in Architecture from a non-NAAB program. Students who complete the pre-professional degree at the University of Oklahoma normally require two years in residence to complete the Master of Architecture degree.

Interested students with any other undergraduate preparation are encouraged to apply, but should anticipate additional time in residence to complete all prerequisite and graduate degree requirements, or their approved equivalents. Total prerequisite requirements for study in this program are established by the content of the pre-professional degree at OU.

Master of Architecture Program (0202M)
This degree program, offered at the Schusterman Center in Tulsa, is designed for candidates already holding a professionally accredited degree in architecture and is primarily for those already holding an NAAB accredited professional degree. It is not a viable track for candidates wishing to establish NAAB accredited degree credentials as a prerequisite to architectural licensing as required in most of the U.S. (This track is not available to any candidate already holding a Master of Architecture degree from any institution.)

CURRICULUM
Non-Thesis Option
Option Electives – 9 hours.
Professional Project Research – 3 hours.
Professional Project – 6 hours.
Electives – 8 hours.

Thesis Option
Option Electives – 9 hours.
Professional Project Research – 3 hours.
Research for Master’s Thesis – 4 hours.
Electives – 10 hours.

GPA Requirement: A minimum 3.0 GPA is required on all graduate and undergraduate work used to fulfill the requirements of this degree.

Graduate Hours Required: 32

Option Electives: All students must focus their graduate architecture program in one of two elective options:
1. Architectural design and technology;
2. Urban design and preservation.

All master’s programs are subject to approval by the student’s graduate advisory committee.

Master of Science in Architectural Urban Studies (0205P)
This degree program is designed for candidates from architectural or related disciplines seeking a career in the dynamics of the urban environment but not desiring to enter one of the licensed professions. The curriculum prepares students for careers in urban research, management, civic administration, public works, and other related areas. The program is also a sound base for those in community service and community design advocacy.

Both thesis and professional project options are available. The curriculum is structured to fit into the College’s Tulsa “Urban Laboratory” academic environment, with evening and weekend courses delivered in three credit segments.

CURRICULUM
Required Courses – 15 hours: ARCH 6680, Adv. Arch. Studio A & B (6 hours), ARCH 6590, Professional Project Research (3 hours), and either ARCH 6690, Professional Project (non-thesis, 6 hours), or ARCH 5980, Master’s Thesis (6 hours).

Elective Options – Three options are available from which elective courses are selected:
   a. Option in Human Relations
   b. Option in Environmental Science
   c. Option in General Urban Studies

A minimum of 32 credit hours plus satisfactory defense of the thesis or professional project is required to complete the program.

All master’s programs are subject to approval by the student’s graduate advisory committee.
Division of Construction Science

Kenneth F. Robson, Director
Richard Ryan, Graduate Liaison
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Internet: www.cns.ou.edu
e-mail: krobson@ou.edu

Faculty Roster
Associate Professors Gransburg, McManus, Robson, and Ryan.

Degrees Offered
• Bachelor of Science in Construction Science
• Master of Science in Construction Administration

General Information
Accredited by the ACCE (American Council of Construction Education), the construction science program combines courses in construction science, architecture, and business to produce managers for the construction industry. Students obtaining a construction science degree pursue management careers in a wide variety of occupations throughout the construction industry. The curriculum prepares students to manage the skilled trades and craftsmen on the job site in addition to managing and interacting with architects, engineers, owners, and other professionals required by the complexities of construction projects. Emphasis throughout the curriculum is placed on developing students’ communication skills, understanding of the technical aspects of construction and the construction process, and the application of information technology to the construction industry. In addition to the academic curriculum, students are encouraged to participate in the nationally recognized Construction Student Association, the various student competitions available to construction science majors and various other departmental extracurricular activities. Since its inception, the construction science program has maintained a close partnership with the construction industry, an extremely important element in providing the quality graduates who are in great demand by employers.

FACULTY
The faculty in the Construction Science program all have extensive industry experience. Faculty members maintain close working relationships with industry through consulting work, participation in professional organizations, and maintaining active memberships in professional societies which represent their areas of expertise. CNS faculty have received university, regional, and national teaching awards.

ADDITIONAL INFORMATION
The Division of Construction Science offers a minor in construction science. Admission is based on a competitive application process with applications due April 1. Students wishing to learn more about the minor program should contact the division director. Construction science majors are encouraged to complete the requirements for a general business minor. This can be accomplished by substituting open electives in the undergraduate curriculum with courses required for the general business minor. Students desiring additional information on this minor should contact the College of Business.

Undergraduate Study

LIMITATION RULES
Students pursuing the undergraduate degree in construction science must complete the degree program within a maximum of seven calendar years from the date of entry into the degree program.

BACHELOR OF SCIENCE IN CONSTRUCTION SCIENCE
The program requires a minimum of 129 credit hours, with a minimum grade point average of 2.50. Construction Science majors must earn a C or better in all CNS prefix courses.

LOWER DIVISION REQUIREMENTS
The lower division (1000- and 2000-level courses) requirements are to be met as follows:

1. COMMUNICATIONS: 9 hours. English 1113 and 1213, Communiciations 1113.
2. FOREIGN LANGUAGE: 0-10 hours. Students who have completed two years of high school foreign language or two consecutive college-level courses in a single language are exempt from the general education foreign language requirements.
3. SOCIAL SCIENCES: 9 hours. Political Science 1113, Economics 1113 and 1123.
4. HUMANITIES: 9 hours. History 1483 or 1493, Architecture 2243 or 2343, one 3 hour Understanding Artistic Forms course.
5. SCIENCE AND MATHEMATICS: 15 hours. Four-hour Natural Science Elective with Lab course, Physics 2414 and 2424, Math 1823.
6. BASIC BUSINESS COURSES: 12 hours. Accounting 2113 and 2123, Business Communications 2813 and Economics 2843.
7. BASIC CONSTRUCTION COURSES: 14 hours. CNS 1113, 1212, 2113, 2713, and 2913.
8. ELECTIVE: 3 hours. Students can choose a 3-hour elective. This requirement cannot be satisfied by Military Science or Physical Education courses.

Application for admission to the junior and senior years of the degree program, requires a minimum 2.50 OU and combined retention GPA. Admission is limited to the top 25 GPAs based on all courses listed on the requirements checklist for the freshman and sophomore semesters. All courses required for the freshmen and sophomore semesters must be completed before applying for admission to the junior year.

UPPER DIVISION REQUIREMENTS:
Before students can enter 3000-level Construction Science courses they must have earned a C or better in all lower division CNS prefix courses and completed all required courses at the freshman and sophomore level.

1. BUSINESS COURSES: 6 hours. Management 3013 and Legal Studies 3323.
2. ARCHITECTURE COURSES: 15 hours. Architecture 2233, 3633, 3433, 4733, 4833.
3. HUMANITIES: 3 hours. Students must take an upper division 3-hour Non-Western Culture elective from the approved General Education list.
4. CONSTRUCTION SCIENCE COURSES: 31 hours. 3103, 3113, 3153, 3513, 3813, 3943, 4123, 4523, 4613, 4991, and 4993.
5. UPPER-DIVISION ELECTIVE: 3 hours. Students can choose a 3-hour, upper-division elective. This requirement cannot be satisfied by Military Science or Physical Education courses.

GRADUATION REQUIREMENTS
Approval for graduation with the degree of Bachelor of Science in Construction Science requires completion of all degree requirements for the undergraduate professional degree program with a minimum OU combined and OU retention grade point average of 2.50 in all coursework, with a C or better in all CNS prefix courses.

- Undergraduate Study
- LIMITATION RULES
- BACHELOR OF SCIENCE IN CONSTRUCTION SCIENCE
- LOWER DIVISION REQUIREMENTS
- UPPER DIVISION REQUIREMENTS
- GRADUATION REQUIREMENTS
Graduate Study

The Master of Science in Construction Administration program is designed for persons who desire an educational background focusing on the interaction from project conception to completion between all parties of the construction process, including the owner, designers, consultants, general contractors, and subcontractors. The core studies concentrate on theories and practical knowledge of the Design/Build project delivery process. Class formats include team interaction and the use of current information management technologies for communication and documentation.

The program is structured for the non-traditional student with most classes meeting once per week in the evening for three hours. The program requires a minimum of 35 credit hours of graduate coursework under the guidance of a faculty committee. This committee will also advise, plan, and monitor progress toward the degree.

ADMISSION REQUIREMENTS

Along with the application to the OU Graduate College, applicants must submit a letter of intent containing a brief narrative of their goals for use of the degree after graduation and a current resume (portfolios are not required). This information and the student’s application will be forwarded from the Graduate College to the Construction Administration Graduate Liaison. Acceptance into the program is contingent upon approval by an applicant review committee. Enrollment in the program is limited and based upon available resources. Prior to entry into the program, the applicant must meet with the Graduate Liaison to determine prerequisites and to discuss the degree emphasis.

APPLICATION DEADLINES

Fall semester entry only. The application deadline is April 30. Late applications will be accepted until August 15, but acceptance into the program at this time is based upon availability and is not guaranteed.

PROGRAM OF STUDY

A specific program of study, including a research project proposal (if applicable), is the responsibility of the student and must be completely planned and submitted to the division graduate liaison by the end of the first semester.

Master of Science in Construction Administration

PREREQUISITES

These courses must be taken prior to or with permission of the graduate liaison in conjunction with other construction administration courses. Prior to program entry the graduate liaison and entering candidate must determine and agree upon the required prerequisites. The graduate liaison may waive prerequisites if convincing evidence of expertise gained in the subjects is demonstrated.

Prerequisite courses:
• CNS 3113, Construction Administration
• CNS 3513, Construction Cost Estimating
• CNS 3813, Project Planning and Scheduling
• MGT 3013, Principles of Organizational Management

CONDITIONS FOR DEGREE COMPLETION

• Meet all Graduate College requirements.
• Successful completion of required prerequisite courses.
• Completion of the six core construction administration courses:
  CNS 5513, Project Management and Controls
  CNS 5523, Design-Build Contracting
  CNS 5613, Information Technology Applications for Construction
  CNS 5623, Construction Contracts and Finance
  CNS 5813, Facility Acquisition Planning
  CNS 5823, Quality Management in Construction
• Completion of a comprehensive oral exam.
• 35 total hours of approved graduate coursework.
• At least 51% of total courses must be letter graded.
• No more than six credit hours of CNS 5960, Directed Reading.
• No more than six credit hours of CNS 5993, Special Studies Research. The student must receive permission of the Graduate Liaison and his/her committee chair for more than three credit hours.
• No more than three credit hours of CNS 5943, Industry Practicum.
• No more than six credit hours of CNS 5970, Graduate Seminar.

ORAL COMPREHENSIVE EXAM

The oral comprehensive exam will cover information from the core construction administration classes. The student’s special project committee administers the oral exam. Based upon the oral exam, the committee determines if the student satisfactorily demonstrates mastery of the required body of knowledge. The oral exam will typically be administered in conjunction with presentation of the special project. Students must be enrolled in at least two hours of coursework in the semester in which they take the exam. Based upon rules established by the Graduate College, students will be allowed to take the exam twice; only one time per semester.

SPECIAL PROJECT/THESIS OPTION

These options are only available on approval and acceptance of the Construction Science Graduate Research Board. These options are an opportunity for the student to explore and develop significant expertise in a particular area of construction administration or conduct cutting-edge construction science research. The student and his/her committee chair and advisory committee determine the nature and scope of this project. Students must follow the “Construction Administration Special Project Guidelines.”

Program in Environmental Design

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This program offers individualized study in student determined aspects of the natural and built environment that are not otherwise available in established degree programs at the university. Students work with a faculty advisor to select courses from all offerings of the university and minor fields are encouraged. The proposed program of study must be approved by the

Program in Environmental Design
The Division of Interior Design recognizes the definition of a professional interior designer as the cornerstone of its philosophical underpinnings:

**BACHELOR OF SCIENCE IN ENVIRONMENTAL DESIGN**

- **Communication Skills (at least 22 credit hours)** —Architectural graphics, art, computer processes, design, drama, engineering drawing, English (1113 and 1213 required), foreign language, journalism, mathematics, photography, speech and statistics.

- **Cultural Environment (at least 9 credit hours)** —Art, classics, drama, English, ethics, history (1483 or 1493 required), history of science, music, philosophy, psychology and religion.

- **Natural Environment (at least 9 credit hours)** —Agriculture, biology, botany, chemistry, ecology, geography, geology, mathematics, microbiology and zoology.

- **Physical Environment (at least 12 credit hours)** —Architecture, astronomy, chemistry, earth science, engineering, geography, geology, geophysics, interiors, medicine, meteorology, pharmacy and physics.

- **Social Environment (at least 15 credit hours)** —Anthropology, architecture, business, economics, education, foreign language, geography, government, housing, human relations, journalism, library science, political science (1113 required), psychology, recreation, social work, sociology and speech.

- **Design and Control of Environment (at least 15 credit hours)** —Administration, conservation, design, ecology, engineering, government, international affairs, management, public affairs and regional planning.

**Open Electives (a minimum of 42 credit hours).**

**TOTAL CUMULATIVE HOURS—124**

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**Division of Interior Design**

Cheryl Reece Myers, Ed.D., ASID, IDEC, Assoc. AIA, Director

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**Faculty Roster**

Professor Myers; Associate Professor Asojo; Visiting Associate Professor Wacht; Instructors Biddick, Boeck, Call, Swineheart, Williams.

**Degree Offered**

- Bachelor of Interior Design

**General Information**

The Interior Design program is a four-year FIDER accredited first professional degree curriculum and meets standards set forth by appropriate national, professional and educational associations. The Division of Interior Design recognizes the definition of a professional interior designer as the cornerstone of its philosophical underpinnings:

"The Professional Interior Designer is qualified by education, experience, and examination to enhance the function and quality of interior spaces for the purpose of improving the quality of life, increasing productivity, and protecting the health, safety and welfare of the public.

The professional interior designer:

- analyzes the client’s needs, goals, and life safety requirements;
- integrates findings with knowledge of interior design;
- formulates preliminary design concepts that are aesthetic, appropriate and functional, and in accordance with codes and standards;
- develops and presents final design recommendations through appropriate presentation media;
- prepares working drawings and specifications for non-load bearing interior construction, reflected ceiling plans, lighting, interior detailing, materials, finishes, space planning, furnishings, fixtures and equipment in compliance with universal accessibility guidelines and applicable codes;
- collaborates with professional services of other licensed practitioners in the technical areas of mechanical, electrical, and load-bearing design as required for regulatory approval;
- prepares and administers bids and contract documents as the client’s agent;
- reviews and evaluates design solutions during implementation and upon completion."

The basic principles and concepts of interior design guide our thinking and decision-making with regard to program content, delivery and evaluation. We direct our efforts toward the development of the entry level interior design professional, with capabilities in the enhancement of the function and quality of interior spaces. We promote an understanding of current practice within the broadest context of the interior architectural profession as well as within the southwestern culture specific to this region.

The program places value upon three distinct characteristics which embody the philosophy of the interior design program at OU:

1. **Learning is centered around contemporary practice:** faculty bring significant practice experience which demonstrates advanced achievement in design management expertise beyond the project management levels of interior architectural design practice.

2. **Learning is diverse and demonstrates a holistic approach to design problem-solving:** faculty and students are exposed to regional and international practices emphasizing resources, culture and tradition-based design. The program also addresses global considerations focusing on issues which reinforce the positioning of interior design for the future.

3. **Learning is interdisciplinary:** the location of the interior design program within a college that shares teaching pedagogy across the disciplines of the built environment provides interior design faculty and students with an environment where team contributions are sought and disciplinary expertise is valued.

The mission of the Division of Interior Design is to provide professional undergraduate education in interior design within a collaborative, multi-disciplinary learning environment. The disciplinary perspective shares a common pedagogy within the College of Architecture divisions, engaging high tech knowledge with high touch skills in preparing new graduates to solve problems related to the global challenges facing the profession of interior design in practice.

The goals of the interior design program in the College of Architecture reflect the program’s location and resources and embrace change as a constant variable in the learning environment. The program strives to:

- prepare entry level interior designers to work effectively with professionals from other disciplines engaged in the planning, design and management of the built environment;
- engage interior design students in the exploration of design within broad cultural contexts, addressing both regional and international contributions to the design of the built environment while utilizing resources across and beyond the campus;
- integrate the expressive qualities embodied in the practice of interior design within the context of a technological learning environment;
- capitalize upon the design practice and design management expertise of the faculty by engaging students in effective and appropriate problem-solving experiences involving student-centered research of the built environment;
- challenge students by addressing contemporary and critical issues facing the profession;
• ensure adequate curricular flexibility to accommodate future change affecting interior design education throughout the duration of a four year program of study;
• preserve and enhance the development of problem-solving skills within a sequential studio sequence, continually expanding to encompass increasingly more complex concepts, skills, knowledge and application strategies; and,
• actively seek and promote the involvement of external organizations in collaborative partnerships, providing opportunities for students and faculty to engage in real life design experiences.

Admission Requirements

Interior design students begin their studies in the fall semester of the first year in the program. Students are required to earn a grade of C or better in all courses which carry a College of Architecture designator (ARCH, EN D, ID). Transfer students are encouraged to meet with the division director for review of prior work and placement in the appropriate studio sequence.

Curriculum Organization

The interior design curriculum combines the development of conceptual ideas—knowledge of art, architecture, craft, and manufacture that stimulates form-making and design with technical knowledge essential to the delivery of the interior built environment—while at the same time integrating the important tasks and rituals of individuals and groups.

A sequential core of professional courses and design studios are linked to University general education courses to prepare students for ever-changing conditions of practice and life. Sequential studio coursework is required in each semester from the environmental design foundation coursework through to the interior design capstone. The curriculum enables interdisciplinary experiences with architecture, landscape architecture, and construction science disciplines.

Special Programs and Facilities

An active student chapter umbrella provides students with valuable interaction with members of the interior design profession while pursuing their degree. The student chapter sponsors field trips to designers’ offices, significant design projects and sites in the region, furnishings markets, and trade shows. Students also participate in competitions in studio as well as through formal independent study opportunities. In addition, students travel to national professional meetings, undertake structured internship experiences, and work with real clients.

College and divisional seminars bring visiting scholars and noted professionals to the College to provide students with a broad understanding of the multi-disciplinary nature of the College and both international and national exposure to significant work in the built environment.

Design studios provide students with permanent work stations. A resource room with current manufacturers’ catalogs, architecture and interior design samples, and technical data that provides students with design resource materials. Interior Design and Construction Science maintain a shared computer studio with access 24 hours a day, seven days a week in addition to a central computer facility available to all students in the College of Architecture.

Undergraduate Study

BACHELOR OF INTERIOR DESIGN
The program requires completion of a minimum of 124 semester hours distributed in general education, major, and elective courses. Undergraduate degree requirements are revised and published annually each summer. Requirements for programs are available on the World Wide Web at: http://www.ou.edu/bulletins/degree-sheets/degrindx.htm. Degree requirements for interior design include the following:

First Year—First Semester - 13 hours
ENGL 1113, General Education MATH, HIST 1483 or 1493, EN D 1011, EN D 1511, EN D 2212.

Second Semester - 17 hours
ENGL 1213, P SC 1113, PHYS 1114, EN D 1133, EN D 1524.

SECOND YEAR—First Semester - 17 hours
A HI 2213, E D 2143, E D 2534, I D 2763, Natural Sciences with Lab (Core II).

Second Semester - 16 hours
A HI 2223, EN D 2151, EN D 2544, I D 2773, I D 4763.

NOTE: A minimum 2.50 OU and combined retention GPA is required for admission to the junior and senior years of the Bachelor of Interior Design program. Admission is limited to the top twenty students applying for the program as determined by GPA (2.50 combined retention or higher) and portfolio review. All freshman and sophomore courses listed above must be completed before applying for admission.

Third Year—First Semester - 16 hours
ECON 1113, I D 3724, I D 3753, I D 3773, Philosophy Elective.

Second Semester - 16 hours
ACCT 2113, ARCH 2333, I D 3734, I D 3763, I D 3783.

FOURTH YEAR—First Semester - 15 hours
MKT 3013, I D 4744, I D 4762, Open Elective (upper-division), Communication Elective.

Second Semester - 15 hours
I D 4776, Professional Elective (upper-division), General Education Elective (upper-division, outside the major), Non-Western Culture Elective (Core IV).

TOTAL CUMULATIVE HOURS—124
A grade of C or better must be earned in all required professional courses.

NOTE: Two college-level courses in a single foreign language are required. This requirement may be satisfied by successfully completing two years in a single foreign language in high school.

Division of Landscape Architecture

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Faculty Roster
Associate Professors Hogue, and Schurch; Visiting Assistant Professor Amoroso.

Degree Offered

• Master of Landscape Architecture

About Landscape Architecture

As described by the American Society of Landscape Architects (ASLA), “landscape architecture is the art and science of analysis, planning, design, management, preservation and rehabilitation of the land.”
“Landscape architects design the built environment of neighborhoods, towns and cities while also protecting and managing the natural environment, from its forests and fields to rivers and coasts. Members of the profession have a special commitment to improving the quality of life through the best design of places for people and other living things.”

“In fact, the work of landscape architects surrounds us. Members of the profession are involved in the planning of such sites as office plazas, public squares and thoroughfares. The attractiveness of parks, highways, housing developments, urban plazas, zoos and campuses reflects the skill of landscape architects in planning and designing the construction of useful and pleasing projects.”

“Depending on the scope of the project for clients, ranging from a local developer to the federal government, landscape architects may plan the entire arrangement of a site, including the location of buildings, grading, stormwater management, construction and planting. They may also coordinate teams of design, construction and contracting professionals.”

“Already, federal and state government agencies ranging from the National Park Service to local planning boards employ a large number of landscape architects. More and more private developers realize that the services of a landscape architect are an integral part of a successful, more profitable project.”

Further information about the profession of landscape architecture may be found by visiting the ASLA web site: www.asla.org.

General Information

The Division of Landscape Architecture offers students an interdisciplinary setting in which to learn and think critically and creatively in addressing environmental issues. The program’s primary mission is the professional education of future landscape architects who will be able to contribute to the profession at any level typifying practice in the field. A secondary mission of the program is to successfully offer a post-professional degree for those students who already have the first professional degree at the undergraduate level who are interested in advanced study in landscape architecture.

Two program options are offered: the First Professional Master of Landscape Architecture (0204M) is for students who do not have a previous professional degree in landscape architecture and who may come from fields as diverse as English literature, drama, wildlife management or nursing; and the Post-Professional Master of Landscape Architecture (0204N) which is only for students who have already completed an accredited professional degree in landscape architecture. The First Professional Master of Landscape Architecture is accredited by the Landscape Architecture Accrediting Board (LAAB) and The American Society of Landscape Architects.

In both program options, the student is expected to focus the professional electives on an area of specialization such as urban design, rural and small town design, sustainable and ecological design, environmental issues, or computer technologies. The student is encouraged to consider offerings in allied departments such as Anthropology, Architecture, Art, Botany, Construction Science, Civil Engineering, Environmental Science, Communications, Geography, Geology, Health and Sports Sciences, Human Relations, Political Science, Regional and City Planning, Sociology, and Zoology.

All students are required to develop a graduate advisory committee who will guide the student through the selection of a graduate project topic and the graduate project sequence. All master's programs are subject to approval by the student's graduate advisory committee and the graduate liaison.

Admission Requirements

To be admitted to the Master of Landscape Architecture program, a student must first be admitted to the Graduate College of the University. In addition to the application requirements of the Graduate College, the following additional materials must be submitted directly to the Division:

1. Evidence of creative activity or ability in any field of endeavor (such as portfolios or essays)*;
2. Three letters of recommendation, preferably from former professors;
3. A statement of intent that discusses in detail the applicant's background, and explains the interest in graduate study as well as in a professional degree in landscape architecture.

*Applicants are encouraged to contact the division to discuss the portfolio requirement if it seems inappropriate to the applicant's previous background. In certain circumstances, the portfolio requirement may be waived.

GPA Requirement: All students must maintain an overall GPA of 3.0 in order to remain in good standing and to fulfill the requirements of this degree.

Master of Landscape Architecture—First Professional Degree (0204M)

The first professional degree curriculum includes technical as well as theoretical courses and design studios that utilize urban and rural settings in the state and region as learning laboratories. The students will be prepared to design and manage landscapes that are environmentally sound and socially responsible. Design projects are a balance of real and theoretical programs ranging from small to large scale.

The objectives of the first professional degree are to produce graduates who:
• are qualified to enter the profession;
• possess theoretical and conceptual insight in the field and practice of landscape architecture;
• are interdisciplinary by training and conversant with the professions related to landscape architecture;
• possess a specialization relevant to particular student interests and the needs of both society and the profession of landscape architecture;
• possess an in-depth facility with the body of literature significant to landscape architecture.

CURRICULUM (0204M)

Studio Sequence: LA 5515, 5525, 5535, 5545, 5555.
Technical Sequence: LA 5243, 5343.
Graphics and Communication Sequence: LA 5513, 5613.
Planting Design and Technology Sequence: LA 5713, 5723, 5924.
History: LA 5943.

Environmental Requirement: one course selected from approved list.

Professional Practice Requirement: one course selected from approved list.

Research Methods Requirement: LA 5403.

General Departmental Seminar: one semester.

Professional Electives: Minimum of three courses; nine credit hours.

Graduate Project Sequence: LA 5950, 6950, 6996.

Graduate Hours Required: For those entering the program with a degree outside of the design fields, this program will take three years and 77 credit hours to complete as a full time student. For those entering the program with an undergraduate or professional degree in architecture or a pre-professional degree in landscape architecture, this program may take two and a half years as a full time student to complete and may consist of as few as 60 credit hours if equivalent coursework was completed as part of the previous degree. Equivalent coursework will be reviewed on a case by case basis.

International students who enter with an undergraduate landscape architecture degree may be required to take some of the first year courses depending on GPA, portfolio and language ability.

Post-Professional Degree (0204N)

The Post-Professional Master of Landscape Architecture presumes that students already holding the first professional degree are qualified to enter the profession. The post-professional degree allows students to examine in
depth advanced ideas, innovative techniques, and other issues relevant to the field of landscape architecture. The unique multi-disciplinary opportunities available across campus for this focus include architecture, regional and city planning, geography, geosciences, botany, environmental science, health and sports sciences, human relations, management and public administration, and fine arts.

Students entering this option will have an accredited undergraduate first professional degree in landscape architecture from a North American university. On a case by case basis, depending upon review of transcripts and portfolio by the Program Director and the Graduate Liaison, the student may be required to take courses which may not have been offered as part of the undergraduate professional degree; or to take courses whose content was covered in the undergraduate degree because grades and/or portfolio reveal weaknesses. Many of these students are likely to be required to take the environmental advised elective unless they can demonstrate equivalent course content and hours.

Specific objectives of the post-professional degree are to produce graduates who:
- possess advanced theoretical and conceptual knowledge and insight in the field of landscape architecture;
- possess an in-depth facility with the body of literature significant to landscape architecture;
- possess a specialization relevant to student interests, the needs of society and the needs of the profession.

CURRICULUM (0204N)

Students in this program will be required to take a minimum of three studios and five professional electives.

- Studio Sequence: LA 5535, 5545, 5555.
- Environmental Requirement: one course selected from approved list.
- Research Methods Requirement: L A 5403.
- General Departmental Seminar: one semester.
- Professional Electives: five courses, minimum of 15 credit hours.
- Graduate Project Sequence: LA 5950, 6950, 6596.
- Graduate Hours Required: For the majority of students in this program option 49 credit hours will be required. Under special circumstances, the student may petition to be released from up to two studios. The petition process must be accompanied by a formal presentation of work and portfolio to the Division Director and the Graduate Liaison as well as a written statement of professional and program goals.

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**Division of Regional and City Planning**

Richard Marshment, Director

Gould Hall, Room 162

Norman, OK 73019-6141

Phone: (405) 325-2399

FAX: (405) 325-7558

Internet: [http://www.ou.edu/architecture/drcpl/](http://www.ou.edu/architecture/drcpl/)

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**Faculty Roster**

Professor Marshment; Assistant Professors Peterson, Shen, Warken.

**Degrees Offered**

- Master of Regional and City Planning

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**General Information**

The Master of Regional and City Planning degree is a two-year course of graduate study designed for persons who desire to work in urban and/or regional planning, environmental planning, conservation, environmental protection, neighborhood and area development, community and economic development, urban design, transportation planning, and similar specialties in public or private sectors.

**ADMISSION REQUIREMENTS**

Requirements for the Master of Regional and City Planning degree include a bachelor’s degree from a recognized college or university. In addition to the formal application, a statement of the student’s personal objectives and three letters of recommendation should be sent directly to the division. Fall semester admission is recommended to take advantage of the scheduled sequence of course offerings.

**Degree Requirements**

Two options are provided the student:

- (1) a thesis program requiring a minimum of 48 academic hours;
- (2) a non-thesis program requiring a minimum of 50 academic hours.

Both programs have a 28-credit-hour core curriculum consisting of RCPL 5013, 5052, 5113, 5173, 5203, 5213, 5353, 5513 and 5525. The thesis option requires a four-credit-hour research and written study conducted under the guidance of a committee. The non-thesis option requires a minimum of 50 hours of academic work including a professional project and a written comprehensive examination. In either option, the program of coursework for each degree candidate will be prepared by a committee of the faculty to meet the specific needs of each individual.

The 28-hour core of courses offered in a four-semester sequence, beginning in the fall of each year, is required of all students. The first year of core study concentrates on the theories, concepts and characteristics of urbanism from the social, economic, political and ecological frames of reference. The second year is devoted to analysis and planning methods used in preparing comprehensive plans, developing public policies, managing growth, providing human services and conserving the natural environment.

In addition to the core curriculum, students specialize in one or more areas of concentration, requiring nine credit hours in any of the following areas: economic and community development, environmental planning, transportation planning, urban design/preservation, or housing and real estate development.

**Dual Degree Programs**

Students may pursue two dual degree programs with the Master of Regional and City Planning degree. Students have developed dual degree programs with architecture, landscape architecture, and public administration. Students should inquire with the division on the specific requirements for dual degree options.
College of Arts and Sciences

Ellison Hall
Norman, OK 73019-3109

Inquiries should be directed to: Academic Services
Ellison Hall, Room 124
Norman, OK 73019-3109

Phone: (405) 325-2077
FAX: (405) 325-7709

Phone: (405) 325-4411
FAX: (405) 325-7429

Internet: http://www.ou.edu/cas

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General Information

Administrative Officers
Paul B. Bell, Jr., Ph.D., Dean
Pamela A. Genova, Ph.D., Associate Dean
Edward Sankowski, Ph.D., Associate Dean
Joyce Allman, Ph.D., Assistant Dean

History and Purpose
The College of Arts and Sciences is the oldest and largest of the degree-recommending colleges at the University of Oklahoma. Established in 1892, the College granted its first degrees in 1898. Today, the College provides a large variety of courses and degree programs in the humanities, social sciences, natural sciences and mathematics, as well as courses and programs offered through its professional schools.

Presently, more than 5,000 undergraduates and more than 2,000 graduate students are pursuing degrees through the College’s 19 departments, three schools, six interdisciplinary programs, and several special programs. Students from all colleges in the University are required to complete a substantial number of Arts and Sciences courses. The College teaches 75 percent of the lower-division courses and 60 percent of all courses offered by the University.

The College strives to foster a spirit of free inquiry and independent thinking. In the area of General Education, the College offers students the opportunity to explore the dynamic world in which we live—to understand its physical and biological structure; to increase awareness of our political, economic, and social development; and to appreciate our intellectual and spiritual inheritance, philosophy, and literature.

In addition, candidates for the bachelor’s degree are required to take advanced courses in a selected field of study. The degrees offered by the College provide a strong foundation for a post-baccalaureate professional or graduate degree.

Through a liberal arts education, the College of Arts and Sciences seeks to enrich the lives of our students, both as individuals and as active, productive members of society.

The College Today

Degree Programs Offered

BACHELOR OF ARTS

Degree Programs
African and African-American Studies, Anthropology, Classics (Classical Culture, Latin, or Greek), Communication, Economics, English (Literary and Cultural Studies or Writing), Ethics and Religion, Film and Video Studies, French, German, History, Human Relations, Information Studies, International and Area Studies (students may focus in Europe, East Asia, Latin America, Russia and East Europe, or a more global emphasis in International Studies), Letters, Linguistics, Mathematics, Native American Studies, Philosophy, Political Science, Psychology, Public Affairs and Administration, Religious Studies, Russian, Social Work, Sociology (General or Criminology), Spanish, and Women's Studies.

Please refer to the sections on Combined Curricula and Planned Program for additional information on Bachelor of Arts degree programs within the College of Arts and Sciences.

BACHELOR OF SCIENCE

Degree Programs
Astronomy, Astrophysics, Biochemistry, Botany, Chemistry, Health and Sport Sciences, Mathematics, Microbiology, Physics, Psychology, Zoology.

Please refer to the sections on Combined Curricula and Planned Program for additional information on Bachelor of Science degree programs within the College of Arts and Sciences.

Teacher Certification Programs
Students in the College of Arts and Sciences may also work toward completion of an Oklahoma teaching certificate for secondary education. For more information concerning teaching certificate programs, consult an academic counselor in the Academic Services office.

Types of Degrees Offered

Standard Degree
The standard degrees of Bachelor of Arts or Bachelor of Science do not include the name of the curriculum in which the major work was completed.

Professional Degree
The professional degrees of Bachelor of Arts or Bachelor of Science include the name of the curriculum in which the major work was completed, e.g., the Bachelor of Science in Chemistry degree or the Bachelor of Arts in Psychology degree.

Distinction and Special Distinction Degrees
Students who complete their undergraduate degree in the College of Arts and Sciences may be graduated with distinction if they have completed a minimum of 60 credit hours in residence at the University of Oklahoma and achieve the required grade point averages. The degree with Distinction will be conferred on students who achieve at least a 3.60 combined retention grade point average and a 3.60 grade point average in all OU coursework. The degree with Special Distinction requires at least a 3.90 retention grade point average in all combined and OU coursework. The final semester’s grades will be included in the grade point average that determines the Distinction or Special Distinction degree.

Honors Degrees
All of the bachelor’s degree programs offered by the College of Arts and Sciences are available to qualified students as honors degree programs. Students may be graduated with honors (cum Laude, Magna cum Laude, Summa cum Laude) if they successfully complete all requirements of the Honors College in addition to their regular degree program requirements. Please refer to the Honors College section of this catalog for specific information concerning admission and completion of honors degrees.

College Facilities and Programs

ARCHEOLOGICAL SURVEY

Robert L. Brooks, Director and State Archaeologist
Established in 1970, the Oklahoma Archeological Survey is a state agency with regulatory authority, as well as a unit of the College of Arts and Sciences. The Survey's enabling legislation charges the Survey with three basic mandates: 1) to conduct research on Oklahoma's prehistoric and early historic archaeological record, 2) to work with the citizens of Oklahoma to preserve significant archaeological resources, and 3) to disseminate information on our activities through publications, public presentations and other means of outreach. The Archeological Survey has two divisions: Organized Research and the Community Assistance Program. The Survey also serves as the centralized repository for records on archaeological sites in the state (currently holding information on some 17,500 locations). Personnel of the Archeological Survey consists of seven research faculty, along with graduate and undergraduate students, and volunteers who perform a wide range of research, managerial, and educational activities. The Survey faculty also teach classes through the Department of Anthropology.

BIOLICAL STATION, LAKE TEXOMA

Lawrence J. Weider, Director and Associate Professor of Zoology
The University of Oklahoma Biological Station, located on the north shore of the Red River arm of Lake Texoma, is established as a permanent
year-round facility designed and operated for instruction and research in several fields of ecology and biology. The Station, located 125 miles from Norman, is subject to all rules and regulations that govern the University of Oklahoma.

Primary academic goals include biological instruction, experimentation, and exploration as it relates to the University of Oklahoma student. However, the scientific and study programs have been enlarged to incorporate four main operational endeavors. They are: (1) the constant updating of curriculum necessary for quantitative and experimental courses for graduate and undergraduate students; (2) year-round ecological research by resident faculty and/or collaborating investigators from other institutions; (3) providing a base for sabbatical/short-term study by the international research community and; (4) providing an ideal meeting site for academic and/or other educational non-profit institutions.

The Biological Station does not offer a degree program, although credit obtained is directly applicable toward the requirements of the degree-recommending colleges of the University. Scholarships, graduate assistantships, work-study assistance, and independent study are also available. Inquiries should be sent to the director.

The Biological Station's major instructional emphasis is on two-week courses offered in May and August at the Station. Field-research participation is also available for undergraduate and graduate students, including grade school, high school, and college teachers.

**BIOLOGICAL SURVEY**

Caryn Vaughn, Director and Associate Professor of Zoology

The Oklahoma Biological Survey, established in 1927, is both a research unit of the College of Arts and Sciences and a state agency recognized through 1987 legislation. The mission of the Survey is to scientifically investigate the diversity of plants and animals in Oklahoma and associated regions and to contribute to conservation and education concerning these important resources. The Survey includes: (1) the General Biological Survey program; (2) the Oklahoma Natural Heritage Inventory; (3) the Bebb Herbarium jointly operated with the Department of Botany and Microbiology; (4) the Oklahoma Fishery Research Laboratory jointly operated with the Oklahoma Department of Wildlife Conservation; and (5) the Sutton Avian Research Center, a bird conservation center located in Bartlesville, Oklahoma. Personnel in the Survey include faculty, staff, graduate students and undergraduates who engage in a wide range of research, teaching and service activities.

**CAREER SERVICES**

The University of Oklahoma's Office of Career Services helps students to ease the transition from college to career by offering an opportunity to explore career alternatives, both through library resources and through internship and co-op opportunities. In addition, services are available to assist students to conduct a job search and to contact employers. Programs include a class on career planning for Arts and Sciences students, on-campus interviewing, resume/job matching, career fairs, job listings, and workshops on job search strategy. Professional counselors are available during scheduled walk-in hours, and the career information center is open Monday through Friday from 8:00 A.M. to 5:00 P.M. The office complex is located in the Student Union, Suite 323.

**CARL ALBERT CONGRESSIONAL RESEARCH AND STUDIES CENTER**

Gary W. Copeland, Director and Curator, and Professor of Political Science

The Congressional Archives at the Carl Albert Center contain the papers of Carl Albert, former Speaker of the U.S. House of Representatives as well as the papers of over 50 members of Congress and some congressional staff, scholars and journalists. The archives serve researchers on the OU campus and throughout the world. The Center offers a unique five-year graduate program leading to a degree in political science with special emphasis on Congress and representative government. The Center also offers research fellowships to undergraduate and graduate students who participate with political science faculty members in collaborative research projects. Students and researchers interested in learning more about the opportunities available may contact the center through their web site: [http://www.ou.edu/special/albertctr/cachome.html](http://www.ou.edu/special/albertctr/cachome.html).

**COMPUTING RESOURCES**

In order to meet the challenges of the 21st century, graduates of the College of Arts and Sciences must be able to research problems, gather, evaluate, and analyze information and present the results in a logical coherent manner. The College of Arts and Sciences provides a number of technology resources and computing facilities to help students develop these skills.

**Streaming Media.** To meet the need for timely, thought provoking information, the College of Arts and Sciences tapes and video streams many distinguished guest lecturers and authors that visit the Campus each year. These presentations are then made available on the College's streaming media web site to provide all students with an opportunity to see and hear the presentations at a time that is convenient for them. The streaming video presentations can be viewed on the college web site at: [http://casweb.cas.ou.edu/video/](http://casweb.cas.ou.edu/video/).

**Open Access Labs.** College of Arts and Sciences students have access to the finest computing facilities at the University of Oklahoma. These staffed computer lab facilities provide students the opportunity to conduct research, write papers, create web sites and conduct email correspondence. The facilities include:

- Physical Sciences Building Lab
- Dale Hall Tower Lab
- School of Library and Information Studies Lab.

**Computerized Classrooms.** Each year an increasing number of classes are taught in a computerized setting. Each of these classrooms have been configured with the latest hardware and software needed to support instruction.

- Three classrooms in Gittinger Hall used for English Composition
- The state of the art Modern Languages and Linguistics Lab used to support students in the study of languages
- Physical Sciences Rooms 230 and 231
- Dale Hall Tower 105

**Departmental Computing Facilities.** Many departments also have computer lab facilities to support the specialized needs of their students. These include:

- Biological Station
- Economics
- Health and Exercise Science
- Sociology
- Psychology
- Physics
- Zoology

**FILM & VIDEO STUDIES VIDEO AND DVD LIBRARY AND VIEWING ROOM**

The Video and DVD Library of Film and Video Studies, located in the old Science Hall, houses over a thousand titles including not only American fiction and documentary films but hundreds of Russian, French, German, East European and other foreign films as well. A large selection of screenplays and of reference books on film, television and new media are also part of the collection.

**INTERDISCIPLINARY PERSPECTIVES ON THE ENVIRONMENT RESOURCE CENTER**

The IPE Resource Center, located in the Sarkeys Energy Center, contains course readings, plus a collection of books, videos, and other materials related to the topics of the IPE Introduction course, the IPE Practicum, and environmental issues in general.

**INTEGRATIVE STUDIES**

**Foreign Service**

Edward J. Perkins, Executive Director of International Programs Center, Adviser

Students seeking entry into the Foreign Service should obtain a good general education including courses in history, political science, economics,
international relations, business, public administration, and foreign languages.

No specific major is required. In recent years, those entering the Foreign Service have had bachelor’s degrees or advanced degrees in international relations, economics, business administration, law, journalism, and many other fields. Keep in mind that competition for entry into the Foreign Service is extremely high, and the student should pursue an educational program which will lead to an alternative career.

Pre-law
Paul A. Tharp, Jr., Professor Emeritus of Political Science, Adviser
No particular course of study is a prerequisite for admission to law school, although history or political science is the choice of many pre-law students. Law schools encourage prospective students to pursue their own interests in obtaining a broad background in their undergraduate programs. The student should develop precision and clarity in written and oral expression; obtain a critical understanding of human institutions and values; and develop the ability to think clearly, carefully, and independently. All of these skills and qualities can be obtained through a variety of educational programs at the undergraduate level.

Pre-law students should consult with the pre-law adviser regarding choice of major and electives.

Premedical Professions
James N. Thompson, Jr., Professor of Zoology and David Ross Boyd Professor of Zoology
Regina Sullivan, Professor of Zoology
The Premedical Professions Office assists those students planning to enter one of the medical professions (primarily allopathic medicine, osteopathic medicine, dentistry, optometry, podiatry, and physician’s associate). Students interested in veterinary medicine are advised through the Zoology Advising Office. It is important that prospective premedical professions students confer with a premedical adviser as soon as possible after entering the University, since decisions made during the first enrollment can have a very significant effect on their progression through their preprofessional curriculum.

A point which must be emphasized is that a premedical professions curriculum does not constitute a major and does not lead to a bachelor’s degree. It is simply a combination of courses which will provide the minimum preparation needed for admission to medical school. Acquisition of the bachelor’s degree will require selection of a major. Selection of a major should be made with the same degree of seriousness that would be given to selection of a primary career. Advising for premedical professions students is done cooperatively with the Premedical Professions Office and the major department.

Students who do not plan to earn a bachelor’s degree are likely to be limited in options available in professional training and opportunities at a later time.

LANGUAGE LEARNING CENTER
The Department of Modern Languages, Literature, and Linguistics is home to the computerized Language Learning Center, located in Kaufman Hall. Here students can utilize audio, video, and interactive computer tutorials for Arabic, Mandarin Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish languages and literatures.

LIBRARY RESOURCES
In addition to the extensive collections housed in the Bizzell Memorial Library, Arts and Sciences students have access to two notable special collections, the History of Science and Western History collections, as well as two branch libraries and two special collections housed within departments.

The History of Science Collection documents the influence of pure and applied science on the course of western civilization. In the collection of more than 89,000 volumes are the first published editions of works important in the history of science, supplemented by later editions, initial secondary works, translations, journals and working copies.

The Western History Collections acquire materials on Oklahoma and Western history, North American Indians, the settlement of the West and related topics. The Manuscripts Division has extensive holdings of photographic materials, microforms, oral history, cartographic records and the University archives. Holdings include 80,000 books, over 12,000 cubic feet of manuscripts and 800,000 photographs.

There are two branch libraries in addition to the larger collections that house materials of importance to Arts and Sciences students. The Chemistry-Math Library, located in the Physical Sciences Center, contains a collection of more than 100,000 books (including reference materials, periodicals, and monographs) and subscribes to more than 500 journals and continuing serials. The Physics Library, housed in Nielsen Hall, contains 38,000 books and subscribes to 181 journals for physics and astronomy majors.

The Department of Communication’s Kanter Political Communication Archives, housed in Burton Hall, holds the world’s largest library of videotaped political commercials.

The Women’s Studies Library, housed in the Physical Sciences Center, includes over 1,400 books and numerous journals and articles that focus on women’s subjects.

NATIVE AMERICAN LANGUAGES PROGRAM
The College of Arts and Sciences, through the Department of Anthropology and the Native American Studies Program, promotes the teaching and preservation of Native American languages. Classes are taught in several languages by native speakers with training in linguistics. These languages satisfy both the College’s and the University’s language requirements.

OU OBSERVATORY
The observatory, operated by the Department of Physics and Astronomy, offers free public lectures on astronomy and observatory viewing sessions using a 16-inch LX-200 telescope permanently mounted in a dome on campus.

SOCIETY FOR CINEMA AND MEDIA STUDIES
The Society for Cinema and Media Studies, an international professional organization composed of college and university educators, filmmakers, historians, critics, scholars, and others concerned with the study of the moving image, is hosted in the Film and Video Studies Program, located in the Old Science Hall.

STUDY ABROAD
Success in today’s global community will depend on a student’s ability to share and use knowledge about culture, history, foreign languages, and world geography. An important and exciting way to bring this international dimension into studies and career planning is through the University of Oklahoma’s Study Abroad Program.

Arts and Sciences students in all majors have the opportunity to study abroad for a summer session, semester, or year while still earning credit toward their degree program. The University has 134 agreements of exchange with universities in 50 countries. Under these programs, students maintain their enrollment at OU and pay OU tuition and fees while studying at an accredited university overseas.

In general, students need a 2.50 grade point average to apply for an OU exchange program. Two letters of recommendation from OU faculty, an essay, and a personal interview are also required. Deadlines are usually March 5 for summer and fall programs, and October 15 for spring programs.

Students may receive individual counseling for study abroad through the International Exchange Programs office. A browsing library, containing information on general travel abroad as well as specific catalog and fliers, is located there for student use. Should there be programs through other institutions that students are interested in, this office will also assist in coordination of enrollment.

Arts and Sciences students must consult with their academic counselor in the Academic Services office for determination of specific application of study abroad credits toward graduation. This should be done before enrollment.

For additional information on the current Study Abroad programs, contact the Education Abroad office, Old Science Hall, Room 211, (405) 325-1693. This
office is constantly exploring and implementing new opportunities for OU students, and will be pleased to provide the most up-to-date information.

UNDERGRADUATE RESEARCH

The college encourages its students to become active participants in research and scholarship. Some departments require a senior thesis, and all offer opportunities for research through independent study courses arranged with individual faculty or through the Honors College. Experience in research provides students with direct exposure to scholarly investigation in their disciplines, and often culminates in presentation of their results at regional and national meetings, or publication in scholarly journals.

Recognition of Academic Achievement

DEAN’S HONOR ROLL

The College of Arts and Sciences Honor Roll is compiled at the close of each fall and spring semester. It includes students who have completed at least 12 grade point hours and have earned an average of 3.50 or higher for the semester.

Students enrolled part-time for both the fall and spring semesters of an academic year will be included on the spring semester honor roll, provided that a 3.50 or better is earned for each semester on a minimum of six semester grade point hours with no withdrawals for either semester.

SCHOLARSHIPS AND AWARDS

Scholarships and awards are given annually to students who have achieved academic excellence. Among the many scholarships available only to Arts and Sciences majors are the College of Arts and Sciences Leadership Scholarships, awarded to sophomores, juniors and seniors, and Phi Beta Kappa scholarships awarded to juniors and seniors.

The prestigious Carl Albert Award is given annually to the Arts and Sciences senior who best demonstrates superior academic achievement, moral force of character, and the promise of future service to the state and nation.

The College of Arts and Sciences offers more than 130 scholarships annually through the dean’s office and many other scholarships through its various departments and schools. Students should consult the college’s web site [www.ou.edu/cas](http://www.ou.edu/cas) or the University’s publication [A Guide to Scholarships and Financial Aid](http://www.ou.edu/cas) for further information. The Guide is available on the Financial Aid office’s website [www.finaid.ou.edu](http://www.finaid.ou.edu).

PHI BETA KAPPA

Phi Beta Kappa, the nation’s oldest college honor society, was founded at the College of William and Mary in 1776. Alpha Chapter of the University of Oklahoma was chartered in 1920. Membership in Phi Beta Kappa is open by invitation only to juniors and seniors in the College of Arts and Sciences.

Juniors and seniors with distinguished academic records are elected in March of each year. Students who graduate at the end of the summer session or fall semester are eligible for election the following spring. For additional information about the University’s Phi Beta Kappa chapter, contact the College of Arts and Sciences Academic Services office.

COLLEGE HONORARY ORGANIZATIONS

Several of the departments and schools within the College of Arts and Sciences participate in national honorary societies, and others have established University of Oklahoma honorary organizations. Students should check with their major department for this information.

Undergraduate Study

Student Responsibilities

It is the student’s responsibility to make decisions during undergraduate study that ensure academic success and timely graduation. To make such important decisions, it is crucial that students know and understand the following:

- All requirements for admission to and completion of the degree program.
- The rules and regulations that govern enrollment and graduation.
- University deadlines.
- University policies and procedures.
- Availability of required courses to complete the degree.
- Where and when to go for help.

The University provides a number of resources for students to help them meet their academic responsibilities successfully. These include:

- [Informational publications](http://www.ou.edu/cas) such as this catalog, [A Guide to Scholarships and Financial Aid](http://www.ou.edu/cas), and degree requirement checklists;
- The [College web site](http://www.ou.edu/cas); Academic counselors in the Academic Services office;
- [Student Success Seminars](http://www.ou.edu/cas), which help develop or improve the skills needed for meeting academic potential;
- [Peer tutors](http://www.ou.edu/cas) for assistance with many of the lower-division courses;
- The [Writing Center](http://www.ou.edu/cas), which is available to students seeking assistance with writing assignments; and
- [Faculty](http://www.ou.edu/cas), who teach, advise, and later write letters of recommendation for students.

It is the student’s responsibility to seek out and make use of the resources provided by the University.

Undergraduate students who experience academic difficulty are strongly encouraged to use the appropriate academic support services provided by the University. Students who have questions about these services should consult their academic counselor in the Academic Services office.

Students who need help with coursework beyond the help available from peer tutors or the instructor may wish to consult with the department offering the course to inquire about the availability of other tutors. Most departments maintain a list of tutors, primarily graduate students within the department. These tutors provide services for a fee arranged between the student and the tutor.

Admission to the College of Arts and Sciences

The minimum requirements for admission to the College are:

1. A declared Arts and Sciences major;
2. At least a 2.00 (C) combined retention grade point average on all college-level work attempted; and
3. At least 24 semester credit hours of earned college-level credit.

Some major programs (Social Work, Health and Sport Sciences, and the B.S. in Psychology) have admission requirements beyond the minimums set by the College.

The freshman year at the University of Oklahoma is spent in University College, which is not a degree-recommending college. The University College provides an advisory system for freshmen and assists students in choosing a major. University College students are invited to visit the Academic Services office and the departments in which they have an interest. Transfer to the College of Arts and Sciences from University College is automatic upon completion of the minimum requirements for admission listed above.

Advising Services

The College provides advising services to all undergraduate majors through faculty and professional staff advisers in the major departments and through the Academic Services office.

FACULTY ADVISERS

The College of Arts and Sciences requires all undergraduate majors to meet with their faculty or professional staff adviser in their major department prior to each enrollment.

The Arts and Sciences faculty and professional staff advisers have special expertise in degree program planning, due to their knowledge of the discipline, courses, methods of teaching, and special opportunities available through the major departments. In addition, they can provide
information about potential careers and assist with plans for graduate study. Students should contact their major department for information concerning their faculty or professional staff adviser.

ACADEMIC SERVICES

Joyce Allman, Ph.D., Assistant Dean
Jana Adams, Academic Counselor
Anthony Barrens, Master Counselor
Tracy Holloway, Academic Counselor
Malissa McCracken, Academic Counselor
Michele Nabonne, Senior Academic Counselor
LeQui Raymond, Academic Counselor
Shouna Winslow, Academic Counselor
Phone: (405) 325-4411; Fax: (405) 325-7429

The Cal Hobson Academic Services office of the College of Arts and Sciences is located in Ellison Hall, room 124. Academic counselors in this office are knowledgeable about programs offered by the College. They assist students with choice of major, transcript evaluation, enrollment, graduation requirements, graduation certification, minors, and any problems of an academic nature. Counselors are available throughout the year.

Students who have earned at least 90 credit hours (earned hours plus current enrollment) should schedule an appointment with an academic counselor in the Academic Services office to determine the remaining requirements for graduation (“degree check”).

Seniors must consult with their academic counselor prior to the beginning of their final semester or term to ensure that their final enrollment will complete all remaining graduation requirements. In order to graduate seniors must also complete a graduation application form and turn it in to the College of Arts and Sciences Academic Services office (ELLH 124) during their final term of enrollment.

TRANSFER STUDENTS

The College of Arts and Sciences welcomes students who wish to transfer from other colleges or universities. Transfer students who have completed at least 24 semester credit hours will be admitted directly into the College of Arts and Sciences if they meet the minimum admission requirements stated previously. Transfer students who have earned fewer than 24 semester credit hours will be admitted to University College.

The Office of Admissions will determine acceptance of credits from the transferring institutions. The College of Arts and Sciences will determine how the credits apply toward the requirements for an Arts and Sciences degree. All new transfer students who are directly admitted to the College of Arts and Sciences must meet with an academic counselor in the College's Academic Services office prior to their first enrollment at the University of Oklahoma.

Transfer students should pay particular attention to the following requirements for graduation from the University of Oklahoma:

1. At least 60 semester credit hours must be earned at accredited senior (4-year) institutions.
2. At least 48 semester hours of upper-division credit (courses numbered 3000 or above) must be earned. Transfer work is counted as lower-division or upper-division depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.
3. Residency: this is defined as coursework taken at the University of Oklahoma, excluding correspondence courses.
   a. A minimum of 30 semester credit hours applied toward the degree must be earned in residence at the University of Oklahoma.
   b. A minimum of 15 of the last 30 semester credit hours applied toward the degree must be earned in residence at the University of Oklahoma.
   c. At least 15 semester hours of upper-division major credit applied to the degree must be earned in residence at the University of Oklahoma.
   d. Credit transferred from other institutions and credit earned through OU correspondence courses is non-resident credit. Credit earned by examination is considered neither resident nor non-resident for the purposes of these calculations.
   e. Capstone courses must be taken in residence.

CHANGE OF MAJOR/COLLEGE

A student who wishes to change major fields within the College of Arts and Sciences must fill out a Change of Major Form in the Academic Services office. The student should then schedule an advisement session with a faculty or professional staff adviser in the department of the new major.

A student who wishes to transfer out of the College of Arts and Sciences to another college on the Norman campus must fill out a Change of College Form in the Academic Services office.

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Enrollment Information

ADVISEMENT

A faculty adviser or a professional staff adviser in the major department must advise students registered in the College of Arts and Sciences prior to each enrollment. The steps for enrollment are as follows:

1. The student should first meet with a major department faculty or professional staff adviser to determine which courses will be taken in the upcoming semester or session. The adviser will create a record of the advising session and give the student electronic permission to enroll, thus allowing the student access to complete online enrollment.
2. The student will then enroll through online enrollment at the time of his/her designated enrollment window. For specific online enrollment information, contact the Office of Registration.
3. If a student has a College STOP on his/her enrollment, the student must contact the College of Arts and Sciences Academic Services office.
4. If the student has other stops on his/her enrollment, such as Bursar’s or Housing stops, the student needs to contact the appropriate office to discuss the circumstances for the stop.

Students are strongly encouraged to take advantage of early registration periods in November (for the Spring semester) and in April (for the Summer session and the Fall semester). Courses fill quickly, and students who delay enrollment will find their course selections very limited.

INTERSESSION ENROLLMENT

Intersession allows students to earn credit between academic terms. Students who wish to enroll in May, August, or December Intersession may register online. Although it is always recommended, students are not required to meet with an adviser prior to enrolling in an Intersession course.

CREDIT HOUR REGULATIONS

The maximum course load in a semester is 19 hours during a regular semester and nine hours in the summer term. A student who has established a strong academic record may request to exceed the maximum enrollment hours by petition to the dean through the Academic Services office.

CHANGE OF ENROLLMENT

Deadlines for enrollment, adding a course, and dropping a course are published by the University (http://www.ou.edu/admrec/calendar.html). It is the student’s responsibility to meet deadlines set by the University for changing an enrollment.

PASS/NO PASS ENROLLMENT

Students have the option of taking a course Pass/No Pass (P/NP). To prevent possible bias in grading, the student’s choice of the P/NP option will not be made known to the instructor who will assign the letter grade. The final P/NP grade will be assigned automatically, by computer, on the basis of the letter grade reported by the professor. The grade of P is assigned to a course in which the student earned the equivalent of a C or better. The grade NP is assigned to a course in which the student earned a D or an F.

No credit is given for a course graded NP. Courses graded P/NP are not calculated into the student’s grade point average.
Graduation Requirements

The University of Oklahoma 2003-2006 General Catalog

There are three very important restrictions to Pass/No Pass enrollment in the College of Arts and Sciences:

1. A student may enroll in a maximum of 16 hours of courses under the P/NP option throughout their academic career.
2. A student may not use the P/NP option for courses taken to satisfy University General Education requirements, Arts and Sciences College requirements, major courses, support requirements, or minor requirements. Only courses used to fulfill free electives may be taken under the Pass/No Pass option.
3. A student may change registration in any course from the P/NP option to a regular graded status (or vice versa) only during the first two weeks of a semester or the first week of a regular summer session.

GOOD STANDING/ENROLLMENT CONTRACT

Good standing in the College of Arts and Sciences requires the following:

• A 2.00 combined retention grade point average (University of Oklahoma and transfer work combined, and
• A 2.00 University of Oklahoma retention grade point average.

Students not meeting one or both of these requirements will be placed on enrollment contract status and must meet specific conditions established by the assistant dean in the Academic Services office. Failure to meet these conditions will result in denial of enrollment privileges in the College.

Students who have been denied enrollment privileges in the College of Arts and Sciences due to poor academic work should contact the Center for Student Advancement (Old Science Hall, room 311, 325-2574). Professional counselors in the Center will assist students in determining their options for continuing their educational pursuits.

If at any time during a semester the scholastic standing or attendance in any class of a student on enrollment contract is deemed unsatisfactory, the Dean of the College of Arts and Sciences may recommend to the University Registrar that the student be withdrawn from the University.

Academic Forgiveness Policy

The Academic Forgiveness Policy, instituted by the Oklahoma State Regents for Higher Education, allows students, under certain circumstances, to have courses removed from the calculation of the retention grade point average. It consists of two components: the repeat policy and the reprieve policy. These are described in the Academic Standards section of this catalog.

Students should contact the assistant dean in the Academic Services office for instructions concerning the process of requesting academic forgiveness.

Graduation Requirements

Rules, Regulations, and Requirements for Undergraduate Programs

The responsibility for meeting graduation requirements lies with the student.

The requirements for graduation from the College of Arts and Sciences are listed on the next several pages. The requirements for a specific degree come from four separate sources: (1) the Oklahoma State Regents for Higher Education; (2) the faculty of the University of Oklahoma; (3) the faculty of the College of Arts and Sciences; and (4) the faculty of a school or department, or the faculty committee administering a special curriculum.

Degree programs normally have four components:

• University-Wide General Education requirements,
• Arts and Sciences College requirements,
• Major requirements, and
• Free electives.

The specific requirements for majors and minors are listed in the Academic Units section of this catalog and on the degree requirement checksheets for each program. Degree checksheets are available from the Academic Services office or the College’s web site (www.ou.edu/cas).

Certification of completion of graduation requirements is the responsibility of the Academic Services office. If grades for the last term of enrollment prior to the planned date of graduation are not adequate for degree completion, students should immediately contact their academic counselor in this office. The counselor will assist the student in establishing another graduation date.

Graduation Grade Point Average Requirements

The College of Arts and Sciences requires a minimum ‘C’ (2.00) average in each of the following areas:

1. Students must earn a minimum of a 2.00 combined retention grade point average (University of Oklahoma and transfer work combined).
2. Students must earn a minimum of a 2.00 retention grade point average on all University of Oklahoma coursework.
3. Students must earn a minimum of a 2.00 retention grade point average in all major credit courses (University of Oklahoma and transfer work combined), and a 2.00 retention grade point average in major credit courses taken at the University of Oklahoma. Some schools and departments in the College of Arts and Sciences have established additional higher grade point requirements for their students. Please refer to the Academic Units section of this catalog for detailed information.

TEN-YEAR LIMITATION RULES

A student in the College of Arts and Sciences may elect to follow the degree requirements that were in place at the time of the student’s first enrollment in the Oklahoma State System for Higher Education (excluding high school concurrent enrollment) or exercise the option to update to the most current degree requirements. Those who elect to follow requirements in place at the time of their first enrollment in the Oklahoma State System for Higher Education must complete the requirements within a maximum of 10 calendar years from the date of that enrollment. If the work for a degree covers a period longer than 10 years, the student must update to the most current degree program requirements.

Credit in a student’s major that is more than 10 years old may not be applied toward a bachelor’s degree unless it is validated by the major department, or each individual department if the major is interdisciplinary.

CREDIT HOUR REGULATIONS

Please read this section carefully. Each of the following credit hour regulations must be satisfied to earn a bachelor’s degree from the College of Arts and Sciences. Refer to individual degree program checksheets for specific requirements.

1. A minimum of 124 semester credit hours applicable towards an Arts and Sciences degree must be earned.
2. A minimum of 80 semester credit hours must be earned in liberal arts and sciences courses for a Bachelor of Arts degree. A minimum of 55 semester credit hours must be earned in liberal arts and sciences courses for a Bachelor of Science degree. “Liberal arts & sciences courses” are defined by the State Regents as courses in the humanities; social and behavioral sciences; communication; natural and life sciences; mathematics; and the history, literature and theory of the fine arts (music, art, drama, and dance). This excludes fine arts courses that focus primarily on performance techniques or involve mostly studio work.
3. A minimum of 60 semester credit hours must be earned at accredited senior (4-year) institutions.
4. A minimum of 48 semester hours of upper-division credit (courses numbered 3000 or above) must be earned at accredited senior institutions. Transfer work is counted as lower-division or upper-division depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.
5. A minimum of 30 semester credit hours must be earned in the major, including a minimum of 15 semester credit hours at the upper-division level.
6. Residency: this is defined as coursework taken at the University of Oklahoma, excluding correspondence courses.
a. A minimum of 30 semester credit hours applied toward the degree must be earned in residence at the University of Oklahoma.
b. A minimum of 15 of the last 30 semester credit hours applied toward the degree must be earned in residence at the University of Oklahoma.
c. At least 15 semester hours of upper-division major credit applied to the degree must be earned in residence at the University of Oklahoma.
d. A student must be listed as a College of Arts and Sciences student at the time of graduation.
e. Credit transferred from other institutions and credit earned through OU correspondence courses is non-resident. Credit earned by examination is considered neither resident nor non-resident for the purposes of these calculations.
f. Capstone courses must be taken in residence.
7. No more than 16 semester credit hours earned under the Pass/No Pass option will apply toward the degree. Refer to the College of Arts and Sciences section on P/NP Enrollment.
8. No more than 16 semester credit hours earned in all basic skills courses including PE activity courses; military courses including Aerospace, Naval Science, and Military Science courses; and military in-service experience will be counted as part of the minimum 124 semester credit hours required for graduation. No more than 4 of the 16 credit hours may be in PE activity courses. Two credit hours of basic military training may be counted toward the degree. Consult your College academic counselor for information.
9. No more than 12 semester credit hours earned in all individualized study courses, e.g., Independent Study and Directed Readings, but excluding Honors Reading and Honors Research, will be counted as part of the minimum 124 semester credit hours required for graduation.
10. No courses may be repeated for credit unless specified “repeatable for credit” in the course description of this catalog or the University's course inventory. Refer to the course description for the number of times or hours a course can be repeated.
11. If a student takes a course that is unacceptable for credit toward graduation from the College of Arts and Sciences, neither the grade nor the credit hours are included in the student's grade point average. Some beginning military science courses (AERO 1011, AERO 1021, and NS 1132) and all remedial courses (numbered 0000–0999) fall within this category.

APPLICATION FOR GRADUATION

Students are responsible for filing an official graduation application during their final semester. Graduation applications are available in the Arts and Sciences Academic Services office. Failure to file the graduation application will result in the student not being eligible for graduation during that semester or term. Those students who plan to graduate in the fall are strongly encouraged to apply for graduation before November 1; those finishing in the spring before March 1; and those finishing in the summer before July 1.

In addition to completing all academic requirements for the undergraduate degree, students must also pay all tuition and fees before the degree can be conferred. Students who complete all academic requirements but fail to pay tuition and fees before the beginning of the following semester or session will have the original graduation date printed on their diploma, but only after all tuition and fees are paid.

UNIVERSITY-WIDE GENERAL EDUCATION REQUIREMENTS

All bachelor’s degrees offered by the College of Arts and Sciences include the following minimum general education requirements:

Courses for fulfillment of these requirements must be chosen from the University-Wide General Education Approved Course List, published by the University (www.ou.edu/admrec/gened.html).

Core Area I: Symbolic and Oral Communication (9–19 hours, 3–5 courses):
  a. English Composition (6 hours, 2 courses).
  b. Foreign Language (met with the College requirement).
  c. Mathematics (3 hours, 1 course),

Core Area II: Natural Science (met with the College requirement.)

Core Area III: Social Science (6 hours, 2 courses): U.S. Government, plus one additional social sciences course chosen from the approved list.

Core Area IV: Humanities (12 hours, 4 courses):
  a. Understanding Artistic Forms, (3 hours, 1 course).
  b. Western Civilization and Culture (6 hours, 2 courses), 3 of these 6 hours must be HIST 1483 or 1493;
  c. Non-Western Culture (3 hours, 1 course).

Core Area V: Senior Capstone Experience (3 hours, 1 course).

In addition to the Senior Capstone Experience, students must take at least one upper-division General Education approved course outside the student’s major.

ARTS AND SCIENCES COLLEGE REQUIREMENTS

Courses for fulfillment of these requirements must be chosen from the University-Wide General Education Approved Course List published by the University (www.ou.edu/admrec/gened.html).

All bachelor’s degrees offered by the College of Arts and Sciences require the following minimum College requirements:

I. Science (7 hours, 2 courses, consisting of one biological science and one physical science course. One of the courses must include a laboratory.)

II. Foreign Language (0–13 hours. One course at the intermediate level or demonstrated competency at that level. Students may need to complete one or two courses at the introductory level prior to enrolling in an intermediate course. Language courses transferred from another institution must be evaluated by OU. Competency at the intermediate level will also fulfill the General Education Foreign Language requirement.)

III. Additional Core IV Humanities courses (6 upper-division hours, 2 courses at the 3000-level or above. Must be outside the major and selected from approved courses in Understanding Artistic Forms, Western Civilization and Culture, or Non-Western Culture.)

Optional Opportunities

Combined Curriculum

• Dentistry
• Medicine
• Osteopathic Medicine
• Veterinary Medicine

A student may qualify for the degree of Bachelor of Arts or Bachelor of Science at the end of his/her first year in an approved school of dentistry, medicine, osteopathic medicine, or veterinary medicine by fulfilling the requirements listed below. Items A-1 through A-4 must be completed prior to entering the professional school.

A. Combined Curriculum with the University of Oklahoma College of Medicine or College of Dentistry:
  1. Complete at least 98 semester credit hours before entering the College of Medicine or College of Dentistry.
  2. Earn at least 30 semester credit hours in residence at the University of Oklahoma.
  3. Earn at least 15 semester credit hours of upper-division major credit courses at the University of Oklahoma.
  4. Earn at least 15 of the last 30 semester credit hours before entering the College of Medicine or College of Dentistry in residence at the University of Oklahoma.
  5. Complete all other degree requirements of the College including the University’s general education requirements, the Arts and Sciences College requirements, and all the major and major support requirements of a regular Arts and Sciences degree program.
  6. Successfully complete the work of the first year in the College of Medicine or Dentistry.
B. Combined Curriculum with other Approved Schools of Medicine, Osteopathic Medicine, Dentistry, and Veterinary Medicine:

A student enrolled in a medical school approved by the Association of American Medical Colleges, in an Osteopathic Medical School approved by the American Osteopathic Association, in a dental school approved by the American Dental Association, or in a school of veterinary medicine approved by the American Veterinary Medical Association may receive the degree of Bachelor of Arts or Bachelor of Science upon the satisfactory completion of: Items A-2 through A-4 (above) and completion of at least 98 hours prior to entering the professional school and by satisfactory completion of the first year in the approved College of Dentistry, Medicine, Osteopathic Medicine or Veterinary Medicine.

Planned Program

DEGREES OFFERED

- Bachelor of Arts
- Bachelor of Science

Students seeking unique training or a broader educational experience may complete a Planned Programs in lieu of an existing major.

The Planned Program must be a coherent set of courses exploring some theme or topic. A written proposal should state the purpose of the program and the specific courses to be included. The program must include at least 36 hours of courses acceptable for major credit in the departments offering the courses, including a capstone class appropriate for the Planned Program.

The student and the faculty member who will serve as the student’s adviser must sign the proposed program. It must be submitted to the Dean of the College of Arts and Sciences for approval and for designation of the appropriate degree to be awarded upon the successful completion of the program.

Because the planned program substitutes for the major only, all other degree requirements of the College must be met.

Additional Bachelor’s Degrees

Additional bachelor’s degrees may be earned from the College of Arts and Sciences by satisfying specific requirements beyond those required for a first degree from the College. Students may earn degrees from the College concurrently, or students holding a bachelor’s degree from the College of Arts and Sciences or another college within the University or from another institution may qualify for an additional (consecutive) degree. To earn an additional bachelor’s degree from the College of Arts and Sciences, a student must:

1. Choose a major different from that of the prior degree(s).
2. Satisfy all current requirements of the additional degree program.
3. Earn a minimum of 30 credit hours in Arts and Sciences courses not applied toward a previous degree, 24 of which must be upper-division.
4. Earn a minimum 2.00 average on all work attempted for the additional degree.
5. Earn at least 15 of the last 30 hours applied toward the second degree must be completed in residence at the University of Oklahoma.

Credit-hour limitations set for the first bachelor’s degree from the College of Arts and Sciences will not be extended for an additional degree (i.e., if the college’s 12 independent study hours were applied to an earlier degree, no additional independent study may be taken).

Double Majors

Students may also earn two majors as part of a single degree. Both majors must be completed within the College of Arts and Sciences prior to graduation. Only one degree will be awarded but the transcript will indicate both majors. The degree will be awarded when requirements for both majors are completed. Courses used to fulfill minor requirements may not be used toward either major. Students interested in a major outside the College of Arts and Sciences must pursue a second undergraduate degree.

Minors

The College of Arts and Sciences offers its students the option of declaring a minor subject. Minors are available in several departments and interdisciplinary programs in the college and the specific minor requirements are discussed in the section of the catalog describing the major programs offered by the college. Requirements also are available in the College of Arts and Sciences Academic Services office or on the college’s web site at www.ou.edu/cas.

For a more current list, consult the college web site at www.ou.edu/cas.
- African and African-American Studies
- African Studies
- Anthropology
- Arabic
- Astronomy
- Botany
- Chemistry
- Chinese
- Classical Culture
- Communication
- Economics
- English—Literature; Writing
- Film & Video Studies
- French
- Gender Studies
- German
- Greek
- Health and Sport Sciences-Preparation for Athletic Coaching
- History
- History of Science
- Interdisciplinary Perspectives on the Environment
- International and Area Studies — East Asian; European; Latin American; Russian and East European
- Italian
- Japanese
- Judaic Studies
- Latin
- Linguistics
- Mathematics
- Medieval and Renaissance Studies
- Microbiology
- Middle Eastern Studies
- Native American Studies
- Philosophy
- Physics
- Political Science
- Portuguese
- Psychology
- Public Affairs and Administration
- Religious Studies
- Russian
- Sociology
- Spanish
- Women of Color
- Women’s Health
- Women’s Studies
- Zoology
African and African-American Studies

Jeanette R. Davidson, Director
633 Elm Ave., Room 233
Norman, OK 73019-3120
(405) 325-2327
FAX: (405) 325-0842
Internet: http://www.ou.edu/cas/afam

Degree Offered
• Bachelor of Arts

Undergraduate Study
The African and African-American Studies (AFAM) program provides students with the opportunity to engage in the scholarly and academic study of the African-American experience, using the study of Africa as a starting point. This interdisciplinary program is intended to help students develop understanding, perceptions, and attitudes for living more successfully in the increasingly multicultural world. The African and African-American Studies program helps prepare students for employment in many different settings.

Students are required to complete a minimum of 36 hours, including at least 15 upper-division hours of coursework. The following courses are specifically required:
• AFAM 2003, Introduction to African and African-American Studies;
• HIST 2033, African-American History to 1865; or, HIST 2043, African-American History since 1865;
• AFAM 4003, Senior Seminar in African and African-American Studies (Capstone).

Students must also complete a research methods course from options approved by the program director. Other courses completed by the student for the AFAM major must also be approved within the program. AFAM offers a wide selection of classes from which the student may choose. Additionally, AFAM 4990 allows students to participate in independent study under the guidance of faculty from AFAM and the related disciplines/departments. The hours vary and influence the work load and activities of the independent study. Students are limited to a maximum of six hours of credit for AFAM 4990.

MINOR
The minor in African and African-American Studies requires a minimum of 18 hours of coursework, including at least nine hours upper-division. The following courses are required:
• AFAM 2003, Introduction to African and African-American Studies;
• HIST 2033, African-American History to 1865; or, HIST 2043, African-American History since 1865.

Other courses completed by the student for the AFAM minor must be approved within the program.

Department of Anthropology

Patricia A. Gilman, Chair
Paul Minnis, Graduate Liaison
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Norman, OK 73019-2005
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FAX: (405) 325-7386
Internet: http://www.ou.edu/anthropology/
e-mail: anthro@ou.edu

Faculty Roster
Professors: Fowler, Minnis; Associate Professors: Foster, Gilman, Harris, Rankin-Hill, Sturm, Vehik, Wyckoff; Assistant Professors: Cahn, Crabb, Fields, Jackson, Linn, O’Neill, Palmer, Rambo.

Degrees Offered
• Bachelor of Arts
• Master of Arts
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. Please refer to the Graduate College section of this catalog for general information on graduate programs.

General Information
Anthropology is the holistic study of human beings, including the biological and cultural aspects of people in all times and all places. The four parts of anthropology are biological anthropology, archaeology, linguistics, and sociocultural anthropology. The Department of Anthropology focuses on the archaeology and biological anthropology, linguistics, and sociocultural anthropology of Native America, but we also have strengths in Mesoamerica, the Caribbean, Africa, and the Pacific Islands. We are the only Anthropology Department in the state system of higher education.

An undergraduate degree in anthropology at the University of Oklahoma requires at least two courses in each of the four subfields, as well as course requirements in research methods resulting in a well-rounded understanding of people in this country and around the world, both past and present. The department sponsors fieldwork opportunities and is active in the Undergraduate Research Opportunities Program and the Honors College, so that undergraduates who so desire can obtain actual experience in anthropology. We maintain close ties with the Oklahoma Archaeological Survey and the Sam Noble Oklahoma Museum of Natural History, and we encourage international study to augment these opportunities.

Undergraduate Study
A major in anthropology provides a broad understanding of human beings and a central part of a liberal arts education. It also is the basis for obtaining certain kinds of jobs in archaeology, museums, or the human resources sector, as well as for graduate study in anthropology or other social science fields.

The undergraduate major requires a minimum of 36 hours of coursework in anthropology. There are specific courses that all majors must take (ANTH 1113, 2113, 2243, 2303, 2503, 4113), and students also must choose one course from each of the following categories:
• Archaeology: 3503, 3803, 3883, 4173, 4413, 4813, 4833, 4853, 4863.
• Sociocultural Anthropology: 3043, 3143, 3263, 3423, 3943, 4163, 4433, 4623, 4843.
• Linguistics: 2733, 3033, 3053, 3063, 4353, 4550.
• Biological Anthropology: 4553, 4923, 4933, 4943.
• North American and Area Studies: 3333, 3453, 3553, 3643, 3713, 3743, 3843, 3893, 4103, 4303, 4633, 4653, 4663, 4673, 4693, 4873.
• Research Analysis: 4003, 4253, 4713, 4763, 4793, 4973.

Students may also take elective anthropology courses, Native American languages, fieldwork or internships, Honors Reading and Research, and independent study.

MINORS

Students who are majoring in other subjects may complete a minor in anthropology. An anthropology minor consists of 15 hours of coursework including ANTH1113, General Anthropology. At least nine hours must be in upper-division courses.

Graduate Study

The Department of Anthropology offers both M.A. and Ph.D. degrees in sociocultural anthropology, archaeology, and linguistic anthropology and an M.A. in linguistics anthropology and biological anthropology, with an emphasis on the Americas.

Because of its location in a state with 38 federally recognized tribes, important archaeological sites and museum collections, and many nationally prominent anthropological research facilities, graduate study at the University of Oklahoma offers unique educational opportunities. The department has a concentration of specialists, especially archaeologists, linguistic anthropologists, and sociocultural anthropologists, in Native America. The department recognizes the historical relationship of anthropology to other areas of the world and to other peoples, and we also have faculty with such research interests. Paralleling our focus on Native America are those of faculty in the departments, colleges, and programs of art history, English, geography, health sciences, history, linguistics, and Native American studies. Faculty in the department have helped Oklahoma tribes design and implement studies that include health care, native language education, ethnomedicine, federal recognition, genealogy, historical anthropology, politics, sociolinguistics, oral history, tribal histories and archives, and tribal cultural studies programs. We offer language courses in Cherokee, Choctaw, Creek/Seminole, and Kiowa, with native speakers as instructors. The department and the affiliated Oklahoma Archaeological Survey support several on-going archaeological research projects in Oklahoma and Kansas, the North American Southwest and Southeast, and northern Mexico. The projects include the earliest settlers in the New World, Paleoindian, Archaic, formative village agriculturalists, hierarchical and state societies, and historic peoples.

UNIQUE RESEARCH OPPORTUNITIES

• Museum collections at the Sam Noble Oklahoma Museum of Natural History, the Fred Jones Museum of Art, and the Gilcrease Museum.
• The Oklahoma Archaeological Survey, a state agency housed at the University of Oklahoma, conducts archaeological research in the state of Oklahoma and offers field and laboratory opportunities for research.
• Archival collections at OU’s Western History Collection, the Oklahoma Historical Society, and the Regional Federal Archives.

ADMISSION

Students interested in the graduate program in anthropology can obtain information on the department by sending an e-mail to the admissions officers or from the department’s web page. Applications should be received by January 31st in order to be considered for financial support. Applications received after January 31st but before April 15 will be considered for admission to the graduate program but not for financial support. In addition to Graduate College requirements, the Department of Anthropology requires a short (1-2 page) statement of goals, results of the Graduate Record Examination, and two letters of recommendation. Students applying to the Ph.D. program who have written an M.A. thesis may be requested to send a copy to the Graduate Liaison.

Students with a 3.00 or greater (on a 4.00 scale) grade point average in their last 60 hours of undergraduate work can be considered for full admission to the program. Special financial incentives may be available for students with excellent potential.

PREREQUISITES FOR FULL GRADUATE STANDING

Students interested in admission to the graduate program in anthropology should demonstrate a serious interest in anthropology. Degree holders with a major or minor in anthropology are most likely to be best prepared for graduate study. Those with a degree in another discipline should discuss any background preparation for graduate study in anthropology in their statement of purpose.

MASTER OF ARTS DEGREE

The master’s program provides a broad, generalized knowledge of anthropology, along with specialization in one of the four fields. A master’s student will take a core course in each of the four fields and will concentrate the elective coursework in any one of those fields.

In addition to writing a thesis, an M.A. student will enroll in four core courses (5223, 5363, 6633, and 6713) and must earn a grade of B or higher in each course. Additionally each student will complete 14 credit hours of electives selected in consultation with their adviser and committee. Additional detailed information may be obtained from the Graduate Liaison.

DOCTOR OF PHILOSOPHY DEGREE

The Ph.D. program provides concentrations in sociocultural anthropology, linguistic anthropology, and archaeology. The student is required to have a broad knowledge of the four fields of anthropology, supported by at least a core course in each, and to have both theoretical and methodological background in their chosen field. The department supports research in North America for archaeology and linguistic anthropology and North America and Mesoamerica for sociocultural anthropology, as well as other possibilities.

The Ph.D. requires 90 credit hours, 30 of which are earned for successful completion of a dissertation. Up to 30 credit hours from an M.A. program may be applied to the remaining 60 hours. The Ph.D. student’s advisory committee will determine which courses, including core courses, may be used toward the 90 hours and will define the plan of study. Each doctoral student will complete a General Examination and dissertation defense.

More detailed information is available from the Graduate Liaison.
Department of Botany and Microbiology

Gordon Uno, Chair and Graduate Liaison
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Internet: http://www.ou.edu/cas/botany-micro/
e-mail: guno@ou.edu

Faculty Roster
Professors Fletcher, Luo, McNerney, Russell, Skvarla, Sullia, Tanner, Uno, Wallace; Associate Professors Ballard, Conway, Downard, Elisens, Nagle, Ortiz-Leduc; Assistant Professors Hoefnagels, Krumholz, Li, and Whiteley.

Degrees Offered
• Bachelor of Science
• Bachelor of Science in Botany
• Bachelor of Science in Microbiology
• Master of Science
• Master of Natural Science
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

General Information
The Department of Botany and Microbiology has a successful faculty committed to excellence in teaching and research. The faculty provides instruction leading to highly respected undergraduate and graduate degree programs in both botany and microbiology and maintains one of the most highly funded research programs on campus.

Twelve of the faculty members have received awards from the University or their scientific colleagues in recognition of their teaching and research excellence. Most of the faculty have internationally recognized research programs and, as a consequence of their reputations, serve on advisory panels to federal agencies, review grant proposals and manuscripts for both national and international journals, serve on editorial boards, and hold offices in national and international societies in their respective disciplines.

Programs for Academic Excellence

RESEARCH OPPORTUNITIES
Both undergraduate and graduate students are encouraged to conduct research projects under the guidance of major professors throughout the semester. More intensive research experience in specific laboratories is frequently available through summer assistantships.

STUDENT ORGANIZATIONS
The O.U. Botanical Society is open to undergraduate and graduate students. The Society organizes field trips and holds several meetings throughout the semester on topics of general interest to which the public and University community are invited.

Career Options
A variety of careers is available to persons with degrees in botany or microbiology. Employment may be with biological supply houses, pharmaceutical companies, industries, state and federal agencies and research institutes. Microbiologists in the medical fields are frequently employed in clinical, diagnostic laboratories and medical research institutes. Increasing employment opportunities are becoming available in the biotechnology industry for persons trained in either botany or microbiology.

Scholarships and Financial Aid
The department has scholarships and assistantships available for academically outstanding students. Individuals with a 3.00 grade point average must apply or be recommended for the scholarships by April 1. Undergraduates must have completed their sophomore year of study to be considered. Details can be obtained from the chairman of the department.

Undergraduate Study

AREAS OF CONCENTRATION
Majors in the Department of Botany and Microbiology may choose to concentrate in one of the following areas appropriate to the major program; however, specific information about the area of concentration will not be reflected on the transcript.

• Botany—Plant Anatomy and Morphology, Plant Ecology, Plant Physiology, Plant Cell Tissue Culture, Plant Population Biology, Plant Taxonomy and Systematics, Ultrastructural Morphology, Molecular Biology, Interdisciplinary Molecular Biology, Environmental Toxicology, Plant Molecular Biology

• Microbiology—Environmental Microbiology, Industrial Microbiology, Medical Microbiology, Microbial Ecology, Microbial Genetics, Microbial Physiology, Microbial Systematics, Molecular Biology, Functional Genomics, Geo-Microbiology.

Bachelor of Science (Standard Degree)
This degree program is designed for students with a liberal arts orientation who wish to emphasize microbiology. The program ensures that each student receives a general understanding of the basic areas in microbiology, and acquires adequate training in the supporting disciplines, but retains an adequate number of electives to permit a liberal arts degree. Sufficient latitude is provided, enabling the student and adviser to plan a specific program tailored to the career and educational goals of the student. The requirements are listed below.

A total of 30 hours of major work in microbiology is required. These courses must be included: 3812, 3813, 4823, 4843, 4853, 4893 or 4950, and one of the following: 3932 and 3942, 4812 and 4822, or 4813. Additional requirements are Botany 1114, or Zoology 1114 and Zoology 1121, one year of physics (2414 and 2424 or equivalent) and a physics laboratory (1302); Chemistry 1315, 1415, 3053, 3152, 3153, 3653, 3753, and Mathematics 1743. Recommended electives are cell biology, history or philosophy of science, logic, geology or physical geography, statistics, computer science, genetics, modern language and management or finance.

Bachelor of Science in Botany and Bachelor of Science in Microbiology (Professional Degree)
The professional degree programs in botany and microbiology are designed to ensure that the student is well prepared for postgraduate study in the life or medical sciences or to accept immediately professional employment in a variety of botanical or microbiological positions. Major requirements, though similar to those of the Bachelor of Science program, are greater in scope and rigor. The requirements for the professional degrees are as follows:
BOTANY

The program requires 32 hours of major work including Botany 1114 and 23 upper-division hours selected from five of the following six areas: (1) Structural Botany (4283, 5264, 5293); (2) Systematic Botany (3534); (3) Genetics (3333); (4) Physiology (4115); (5) Ecology (3453, or Zoology 4462); (6) Molecular/Cell Biology (3113, 4812/4822, 4843) and a capstone course. At least 23 of the 32 hours must be from the Department of Botany and Microbiology with microbiology credits being restricted to two upper-division courses. One year of physics (2414 and 2424 or equivalent), five hours of organic chemistry including laboratory, Mathematics 1743 or equivalent, and one science course (at least three hours) outside botany are required.

MICROBIOLOGY

A total of 35 hours of major work in microbiology is required. The following courses must be included: 3812, 3813, 4823, 4843, 4853, 4893 or 4950, and one of the following laboratory combinations: 3932 and 3942, 4812 and 4822, or 4813. Additional requirements include Botany 1114, or Zoology 1114 and Zoology 1121, one year of physics (2414 and 2424 or equivalent), and a 1302 Physics laboratory; Chemistry 1315 and 1415, a year of organic chemistry with laboratory; a course in quantitative analysis or physical chemistry with laboratory; a course in biochemistry with laboratory; Mathematics 1743 and a course in statistics (Economics 2843, Psychology 2113, or Political Science 3123). Recommended electives include cell biology, history or philosophy of science, logic, geology or physical geology, computer science, genetics, management or finance.

Minors in botany and microbiology must present a grade of C or better in each course presented for major credit and in the required supporting courses.

Minors

MINOR IN BOTANY

Students majoring in other subjects may satisfy the minor requirements in botany by completing 15 hours of botany including no more than one 1000-level course and one 2000-level course.

Students planning to teach science in secondary schools should follow the teacher certification (science) program. For details consult an adviser in the Student Academic Services office.

MINOR IN MICROBIOLOGY

Students majoring in other subjects may satisfy the minor requirement in microbiology by completing 15 hours of microbiology including Microbiology 3812, 3813, and 4823 or 4843. Additional courses required as prerequisites are Botany 1114 or Zoology 1114, Chemistry 1315 and 1415 or Chemistry 1425, and Chemistry 3013 or 3053. Additional prerequisites may be required for specific elective microbiology courses. A grade of C or better is required in all courses presented for credit to fulfill the minor. Students planning to teach science in secondary schools should follow the teacher certification (science) program. For details consult an adviser in the Student Academic Services office.

Graduate Study

PROCEDURES FOR ADMISSION TO THE GRADUATE PROGRAM

Applicants for admission must submit an official transcript of all previous college or university work and three letters of recommendation. Submission of a report of verbal, quantitative and analytical scores from the Graduate Record Examination Aptitude Test (GRE) is required for admission into the microbiology program. The GRE exam is prepared by Educational Testing Service, Box 395, Princeton, New Jersey 08540. Information regarding times and places at which the examination may be taken may be obtained from the University Counseling and Testing Services, or similar agencies on other college campuses. These scores are to be sent directly to the Department of Botany and Microbiology at the time of application.

Each entering botany graduate student will have an advisory conference with a member of the botany faculty during the first semester for evaluation of his or her educational objectives and previous coursework. The conference will permit the student and faculty advisers to determine levels of proficiency in the student’s major area.

All microbiology graduate students will have an advisory conference with a member of the microbiology faculty for the purpose of evaluating previous experience in microbiology. The conference will aid in advisement for enrollment of the student and will not affect admission to a graduate program. The conferences will be held during the week prior to the beginning of classes each semester.

Prerequisites for full graduate standing in botany include meeting the general requirements for the Graduate College and at least 16 hours of coursework in life sciences. Prerequisites for full graduate standing in microbiology include, in addition to meeting the general requirements of the Graduate College, the equivalent of one course in calculus; Physics 2414 and 2424; Chemistry 1315, 1415, 3053, 3153, and 3152; and 12 hours of undergraduate preparation in microbiology.

MASTER OF SCIENCE DEGREE

Candiates for the Master of Science in botany will be required to possess a well-balanced knowledge of the field of botany, to have mastered the technical methods in one or more areas and to have had experience in applying such methods to the solution of a problem. A thesis is required in a total program of 30 hours. A student in this program will be assigned a committee with whom to meet for determining a program of coursework and research.

Candidates for the Master’s degree in microbiology will be required to show mastery of subject matter in general microbiology, medical microbiology, molecular biology, immunology and microbial physiology. In all cases satisfactory completion of a thesis and oral examination covering this subject matter and defense of the thesis will be required.

A student working toward the Master of Science degree will be assigned a committee which will aid in designing the degree program.

MASTER OF NATURAL SCIENCE DEGREE

Students interested in teaching science in the secondary schools are referred to the degree of Master of Natural Science. To be admitted to the M.N.S. degree program, the applicant must hold a valid secondary school science teaching certificate. In addition, the applicant must have completed 50 semester hours of science or hold a degree in science.

DOCTOR OF PHILOSOPHY DEGREE

Work leading to the Ph.D. degree is offered in most areas of botany. The program requires a satisfactory demonstration of knowledge in three of the major areas of botany which include structural botany, systematics, ecology, physiology, genetics, and molecular biology. This proficiency will be determined by the dissertation advisory committee. The satisfactory completion and successful defense of original research as described in a dissertation is also required. Each student will, in consultation with the chairperson, select a dissertation advisory committee. A student must complete the general requirements of the Graduate College, appropriate research skills, and a minor in a related field with a minimum of six hours. Each student must attend and participate in a graduate seminar (BOT 5971). Approximately one-half of the last 60 hours should be in research, Botany 6980.

The Ph.D. degree in microbiology requires the successful completion of a dissertation and satisfactory demonstration of knowledge in the areas of general microbiology, including medical microbiology including immunology; molecular biology, including microbial genetics; microbial physiology, and functional genomics. A minimum of 30 hours of the last 60 must be taken in research (MBIO 6980). Each student must attend and participate in a graduate seminar (MBIO 5971). Testing of subject matter will be administered by the dissertation advisory committee.
Each student will be assigned a specific dissertation committee whose functions are to aid in designing the degree program, provide advice on the dissertation research and conduct the oral dissertation defense examination.

Detailed information on graduate work may be obtained from the chairperson, Department of Botany and Microbiology, Room 135, 770 Van Vleet Oval, Norman, Oklahoma 73019-6131.

Department of Chemistry and Biochemistry

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Faculty Roster


Degrees Offered

• Bachelor of Science
• Bachelor of Science in Biochemistry
• Bachelor of Science in Chemistry
• Master of Science
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

Programs for Academic Excellence

As part of the University-wide Honors Program, the Department of Chemistry and Biochemistry offers special sections of General Chemistry and Organic Chemistry specifically designed for participants in the Honors College. Smaller class sizes allow students to receive more individualized attention.

Opportunities for Undergraduate Research

Students who show particular ability are most strongly encouraged to undertake a research problem as early as possible. Research problems are available in all areas of chemistry (analytical, inorganic, organic, physical, biochemistry, and chemical education). The research is carried out under supervision of the faculty member who agrees to direct the student’s research.

Special Facilities and Programs

The Department of Chemistry and Biochemistry currently has an exchange program with the Department of Chemistry at the Technical University of Berlin. The program is open to chemistry majors in their junior or senior year. Students must have compiled a 3.25 grade point average and have had the equivalent of two years of college-level German.

Students are encouraged to participate in research in one of the many faculty groups. During the summer months each year, a Summer Undergraduate Research Fellowship Program is offered in which superior undergraduates spend 8-12 weeks in one research group. High scholastic aptitude and a commitment to continue on to graduate school in chemistry are requirements for acceptance into this program.

Scholarships and Financial Aid

Students majoring in chemistry are eligible to apply for any of the general scholarships awarded by the University Scholarship Committee. Further information and applications for the general scholarships and other financial aid, such as Educational Opportunity Grants, may be obtained from the University of Oklahoma Office of Financial Aid Services.

Undergraduate Study

Students majoring in chemistry receive instruction, including laboratory experience, in all areas of chemistry. This provides necessary background for postgraduate studies or employment in the chemical industry or research laboratories.

The Department of Chemistry and Biochemistry offers two programs leading to a degree in chemistry.

Candidates for either of these degrees must earn at least a C grade in each chemistry course presented for major credit. No grade below C earned in a chemistry course at the University of Oklahoma may be made up elsewhere without prior written approval by the Department of Chemistry and Biochemistry at the University of Oklahoma.

Duplicate credit is not allowed in the following courses: 1415 and 1425; 3013 and 3053; 3012 and 3152; 3421 and 3451; 3423 and 3453. Courses 1315, 1415, 1425, 1614 and 4232 may not be counted as major work.

BACHELOR OF SCIENCE IN BIOCHEMISTRY

This program is generally pursued by students interested in biochemistry and/or in medical/life-sciences careers. Thirty-five hours beyond General Chemistry are required.

The required courses for this major are: 1315, 1415, 3053, 3152, 3153, 3214, 3421, 3423, 3521, 3523, 3653, 3753, 4753, and 4913 or 4933; BOT/MBIO/ZOO 4843; Math 1823, 2423, 2423, and Physics 2414, 2424 or 2514, 2524.

BACHELOR OF SCIENCE IN CHEMISTRY

This is the program pursued by students desiring the most comprehensive and complete undergraduate background in chemistry. Many such students pursue graduate studies in chemistry following graduation. This degree is fully accredited by the American Chemical Society. Thirty-nine hours beyond General Chemistry are required.

The following courses for this degree are: 1315, 1415, 3053, 3152, 3153, 3214, 3421, 3423, 3521, 3523, 3653, 4023, 4033, 4333, 4444, and 4913 or 4923; Mathematics 1823, 2423, 2423, and Physics 2514, 2524 (recommended) or 2414, 2424.

BACHELOR OF SCIENCE

This program is generally pursued by students interested in studying science from a more interdisciplinary perspective. A minimum of 31 hours beyond General Chemistry are required for this degree.

The required courses for this degree are: 1315, 1415, 3053, 3152, 3153, 3214, 3421 and 3423 or 3451 and 3453; one course from 3753, 4033, or 4444; nine hours from 3523, 3521, 3653, 4023, 4333, 4753, C E 4114, and GEOL 3154 or GEOL 4970; and 4913 or 4923; Mathematics 1823, 2423; and Physics 2414, 2424, or 2514, 2524.
CHEMISTRY MINOR

Students majoring in other subjects may complete a minor in chemistry by completing 15 major credit hours of upper-division chemistry, of which no more than three credit hours may be independent study.

ADVISING

It is imperative for students considering a major in chemistry to contact the personnel in the Chemistry Advising Office (Chemistry Building Annex, Room 214) so that a faculty adviser can be assigned. Advisers work to insure that students complete a program that meets their needs and are aware of career and graduate school opportunities. Advisers meet regularly with students.

Graduate Study

AREAS OF SPECIALIZATION

Students may specialize in one of the following major areas of chemistry: analytical, biological, inorganic, organic, physical and chemical education (or in any combination).

PREREQUISITES FOR FULL GRADUATE STANDING

Students who have satisfied the basic chemistry course requirements for the Bachelor of Science in Chemistry degree at the University of Oklahoma will have met the requirements for full graduate standing. Undergraduate majors from other institutions should meet departmental requirements as follows: the equivalent of courses 3053, 3152, 3153 (organic chemistry); 4023, 4033 (analytical chemistry); 3421, 3423, 3521, 3523 (physical chemistry) plus 4333 (inorganic chemistry). Deficiencies in these requirements may necessitate additional coursework, and may increase the number of course credit hours required for an advanced degree.

SPECIAL REQUIREMENTS FOR GRADUATE STUDENTS

Proficiency examinations are given to all incoming graduate students during the University’s enrollment period at the beginning of the fall and spring semesters. There are five proficiency examinations, one each in the areas of biochemistry, inorganic, organic, analytical and physical chemistry. These examinations cover well-defined areas as outlined by the undergraduate chemistry courses and textbooks employed at major universities. It is extremely important that students realize the significance of these examinations, since they are used by the departmental Graduate Committee to ensure proper placement of each graduate student.

Master of Science Degree

The general requirements for the master’s degree in the Graduate College must be met. Within these limits the student works under the supervision of the research director, the graduate liaison, and the departmental Graduate Committee.

THESIS OPTION

Students interested in developing research capability in a particular area of chemistry usually select this option. If desired, students may take an interdisciplinary approach in their thesis. Minimum course requirements include completion of 15 credit hours in letter graded lecture courses at the 5000-6000 level in at least two of the five divisions.

NON-THESIS OPTION

This degree is generally selected by those students interested in obtaining an advanced degree in chemistry without research specialization. Minimum course requirements include completion of 21 credit hours in letter graded lecture courses at the 5000-6000 level in at least three of the five divisions. A comprehensive oral examination is required. Students who have passed the general examination for the Ph.D. degree may, on recommendation of the department, receive an M.S. degree (non-thesis option).

Master of Science (Chemical Education)

This degree deals with essential concepts in chemistry and effective methods and techniques for the teaching of these concepts. It is designed for the high school chemistry teacher working for an M.S. degree. The major course requirements include Chemistry 5013, 5023, 5033, 5203 and 5213, plus selected courses from the College of Education.

Doctor of Philosophy

The Ph.D. degree in chemistry is awarded for excellence in research scholarship. It signifies the attainment of independently acquired and comprehensive learning attesting to general professional competence.

Minimum course requirements for graduate degree candidates include the completion of a minimum of 21 credit hours in letter-graded lecture courses at the 5000 or 6000 level. At least nine credit hours must be taken in courses at the 5000 or 6000 level which are offered in two other divisions or departments outside of the student’s major division. If more than three hours of these general lecture course requirements are to be taken outside the Department of Chemistry, approval must be given by both the Advisory Committee and the Graduate Committee. A minimum grade average of 3.00 (on a 4.00 scale) must be achieved for the first 21 credit hours taken which qualify as general lecture courses with no more than two grades below B allowed. Failure to meet these requirements will result in the student being terminated from the graduate program in chemistry. Students must also complete the specific courses required by their particular division.

Emphasis may be in one area or a combination of the areas of analytical, biochemistry, inorganic, organic, physical or chemical education. The student works under the general direction of the student’s advisory committee. General examinations in the department consist of the writing and oral defense of a research proposition. Individual divisions within the department also have various additional requirements. Details on the requirements and general instructions to graduate students may be obtained from the Department of Chemistry office, Chemistry Building 208.

Department of Classics and Letters

John S. Catlin, Chair
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Faculty Roster

Professor Doty, Fears, Goble, E. Greene, Stanley; Associate Professor Catlin; Assistant Professor Huskey; Instructors Chambers, Hansen, Masopust, Mills, Rich, Wagner, Walker-Esbaugh.

Degree Offered

• Bachelor of Arts
• Bachelor of Arts in Letters

General Information

The Classics program is one of the original programs at the University of Oklahoma. Its purpose is to acquaint students with the major languages,
the chief literary figures, and the cultures of ancient Greece and Rome. In addition to their study of these ancient civilizations, Classics majors also learn about the important role that the Classical tradition has played in shaping the literature, arts and general culture of Western civilization. Current research in the area of Classical studies is emphasized, so that students may achieve a degree of proficiency in the methods used to uncover and study the past. Memberships in the American Academy in Rome, the American School of Classical Studies in Athens, and the Vergilian Society provide students with a wide range of opportunities for studying abroad. Students also have the opportunity to participate in archaeological excavations at various sites in the Mediterranean region under the auspices of the newly formed Center for the Study of Mediterranean Civilizations and Cultures, which is housed in the Department of Classics and Letters.

The Classics program offers students two degree options. In the first, students pursue the more traditional curriculum which emphasizes study in the languages. This option is primarily intended for students who plan to teach Classics at either the high school or college level, or who plan to enter the ministry. The second degree option emphasizes study of Classical antiquity and the Classical tradition. Students who pursue this option do the majority of their work in Classical Culture and related courses. This option is intended for students who plan to pursue careers in areas outside teaching, such as law, medicine, business, government, etc. The Classics faculty works closely with students and is experienced in advising those who wish to pursue non-academic vocations upon graduation.

In 1937 the School of Letters was organized in the College of Arts and Sciences to “provide guidance and systematic programs of instruction for students whose chief interest lies in the fields of ancient and modern language and literature, and closely allied subjects.” Today the Letters program offers superior students a carefully supervised and coordinated curriculum in the humanities leading to the degree of Bachelor of Arts in Letters. The program instills a deeper appreciation of their own culture through an exploration of the major movements of the Western civilization in which it was formed. By studying the important and characteristic achievements of the human mind from Greco-Roman antiquity to the modern era, students come to understand and appreciate the ideas and principles that form the basis of their own culture.

The Letters degree is interdisciplinary. Majors take courses in the areas of History (History and the History of Science), Literature (Classics, English, Modern Languages and Literatures), Letters, and Philosophy. In addition, the major requires History students to take supporting courses in an ancient and a modern language. The program is based upon the assumption that cultivated intelligence, good judgement, and artistic expression in speech and writing are desirable in and for themselves.

The Letters major provides an excellent preparation for advanced study in professional and graduate schools. Many Letters graduates have chosen to continue their studies in such fields as medicine, law, business, government, education, and the clergy.

Scholarships and Financial Aid

The Charles and Julie Daniels Study Abroad Scholarship has been established by Charles and Julie Daniels to provide financial assistance for Classics and Letters majors studying abroad.

The Jean Rhodes Herrick Scholarship has been established by the family, friends and former students of Jean Herrick, a long-time member of the Classics faculty, to honor an outstanding Classics major who plans to pursue a career in the teaching of Latin.

The Philip J. Nolan Scholarship in Classics and Letters has been established by the former students, colleagues and friends of Dr. Philip Jerome Nolan, who was Professor of Classics from 1953-1987, Director of the Letters Program from 1955-1978, and Chair of the Classics Department from 1959-1978. Two scholarships are awarded annually to outstanding senior undergraduate students majoring in Classics and Letters.

The Oklahoma Classical League Scholarship has been established by the Oklahoma Classical League to honor a Classics major who was a member of the Junior Classical League while in high school.

The Mary Enod Williams Scholarship has been established by her son, Charles, to honor the memory of his mother, a long-time supporter of education in Oklahoma. This scholarship is awarded annually to an outstanding Classics or Letters major.

The Peggy Chambers Scholarship has been established by a Letters alumnus to honor Peggy Chambers for her excellence in teaching and advising. Two scholarships are awarded annually to juniors majoring in Letters.

All of the above mentioned scholarships are awarded on the basis of academic achievement and financial need. All students majoring in Classics and Letters are considered as applicants for these awards.

Undergraduate Study

Classics

Students majoring in Classics may choose a major concentration in classical culture, Greek, or Latin.

In order to fulfill the requirements of a major concentration in classical culture, students must earn 33 hours in courses in classical culture and related subjects including 30 hours numbered 3000 and above. A minimum of 27 hours in classical culture must be earned. Courses taken in related subjects must have prior approval of the Classics Department in order to be counted as major work. Students choosing the concentration in classical culture must also earn six hours of supporting coursework at the intermediate or upper-division level in Latin or Greek. Students may also substitute two additional upper-division Latin or Greek courses for two classical culture courses. Advanced Standing, Advanced Placement, CLEP, or similarly recognized credit for work prior to matriculating to the University may be counted toward satisfying the supporting course credit.

To fulfill the requirements of a major concentration in Latin or Greek, students must earn 34 hours of credit in one of the languages, including 24 hours of courses numbered 2000 and above (15 must be at the upper-division level). Advanced Standing, Advanced Placement, CLEP, or similarly recognized credit for work prior to matriculating to the University may be counted toward the fulfillment of these requirements, up to a maximum of 16 credit hours.

Letters

A candidate for graduation with the degree of Bachelor of Arts in Letters must achieve a combined retention grade point average of 3.00 or better, computed on the basis of the last 90 hours. Students who meet all requirements of this program with the exception of the minimum grade average requirement may be graduated with the degree of Bachelor of Arts.

In addition to fulfilling the general requirements of the University and the College of Arts and Sciences, students must complete 36 semester hours of major credit courses in each of three areas: history (which may include history of science, literature (which includes work in Classics, English, and Modern Languages and Literatures), and philosophy (which may also include work in specified courses in political science, religious studies, and Native American Studies). Letters courses, depending on their content, may count in any of the areas. Students must earn a minimum of nine hours credit in each area, and 27 of their 36 total hours must be earned in upper-division courses. Students must also complete supporting courses in one ancient and one modern language either at the secondary or collegiate level. They must complete at least two intermediate-level courses in one of the languages and at least one intermediate-level course in the other. A supporting course in the history or appreciation of one of the fine arts is also required.

Letters majors may fulfill the capstone requirement in the Letters capstone courses or they may take the capstone in one of the participating departments including Classics, History, English or Philosophy.
Minors

CLASSICAL CULTURE MINOR
Students wishing to minor in Classical Culture must earn 15 credit hours in classical culture courses, 12 of which must be earned in upper-division courses numbered 3000 or above. Three hours of credit in related courses may be substituted for work in classical culture with the permission of the department. Classical Culture 1412 may not be counted toward the minor.

LATIN AND GREEK MINOR
Students wishing to minor in Latin or Greek must earn 15 hours in Latin or Greek courses numbered 2000 and above. A minimum of nine hours must be at the upper-division level. Students may substitute three hours in an upper-division classical culture course for three hours of Latin or Greek.

Special Facilities and Programs
Students acquire meaningful job experience while earning college credit through the Department of Communication’s internship program. The program allows students to apply their communication knowledge in the working world and enhance their college and career opportunities. Students have the option of choosing positions offered through the department’s internship director or arranging for their own internships with the assistance of the internship adviser. The University also provides internship and career counseling through its office of Career Services.

Participation in communication organizations gives students an opportunity to meet others in their major as well as gain increased access to faculty, alumni and other professionals in the field. The Undergraduate Communication Association is open to all communication majors and minors, and Lambda Pi Eta, the department’s honor society, recognizes outstanding students in communication.

The department houses a nationally-recognized speech and debate program. By enrolling in Communication 2111, students can receive up to four credit hours while participating in local, regional and national speech and debate events.

The Department of Communication also includes the Political Communication Center which houses the world’s largest collection of political commercials with more than 100,000 films, videos, and audio recordings representing campaigns ranging from presidential races to city council elections. The commercials, dating back to 1952, make an important contribution to the study of communication and politics. The Center also coordinates research projects on political communication and sponsors conferences that bring together students, scholars, political figures, and media professionals to discuss important topics.

Undergraduate Study
The goal of the undergraduate major program is sharing the best available theories of communication and facilitating the application of these theories for:
- the improvement of the major’s communication skills,
- the major’s understanding of the communication process, and
- the ability of the major to analyze and interpret the elements of the communication processes as they occur in society.

The department strives to achieve these objectives through varied coursework designed to prepare students for the variety of careers available to communication graduates, through practical field experiences obtained from an internship program, and through practical experience in other departmental programs.

Graduates from the program are employed in a wide variety of people-oriented careers including management, community leadership, public relations, sales, and organizational and human resource development. Our on-going transition to an information-based society makes the skills of our majors highly valued by employers. As Roger B. Smith, former General Motors Chief Executive, noted: “Everything we do depends on the successful transfer of meaning from one person or group to another. In fact, it’s not much of an exaggeration to say that communication is really what business is all about.”

BACHELOR OF ARTS DEGREE
The undergraduate major requires 36 communication hours including 21 upper-division hours. The undergraduate program of study follows a six-step sequence:
1) COMM 1113; 2) COMM 2513, 2613, and 2713 (in any order); 3) COMM 3023; 4) COMM 3113; 5) Four writing/speaking intensive courses (COMM 3003, 3243, 3253, 3263, 3483, 3513, 3523, 3633, 4323) (12 hours); and, 6) COMM 4713.

Students are required to make a C or better in COMM 2713, 3023, 3113, and 4713, and each may be repeated only once to attain the required grade. These courses are not available through correspondence or transfer credit. COMM 2513 may fulfill a student’s General Education mathematics requirement; however, if taken to fulfill the math requirement, COMM 2513 cannot be counted as a lower-division communication elective course.

Department of Communication

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Internet: http://www.ou.edu/cas/deptcomm/

Faculty Roster
Professors Y. Kim, D. O’Hair, Pfau, S. Ragan, VanCundy; Associate Professors Kramer, Rodriguez, Wieder; Assistant Professors Edy, Horowitz, Johnson, Meirick, Miller, Sandel.

Degrees Offered
- Bachelor of Arts
- Master of Arts
- Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

General Information
The ability to communicate clearly, eloquently, and effectively has become the hallmark of an educated person since the beginning of recorded history. At the University of Oklahoma, the study of communication has been a part of the curriculum since 1896. Offering B.A. degrees starting in 1935, M.A. degrees in 1937, and Ph.D. degrees in 1952, OU’s Department of Communication views communicative behavior as basic to human activity—to individual development, to interpersonal and social relationships, and to the functioning of political, economic, cultural, and social institutions. Through research and theory-building, we seek to interpret how individuals use symbols to understand and act within their environment.

The department’s role as one of the communication discipline’s most prestigious departments in a domain of great pragmatic importance commits us to a multi-level teaching program. Our Ph.D. and M.A. programs seek to place graduates in both academic settings with research and educational responsibilities and in non-academic settings in business and industry. Our undergraduate program seeks to prepare majors for diverse career opportunities, prepare gifted students for advanced work, and develop the communication skills that contribute to the long-term advancement and happiness of all students.
The remaining three to six hours of communication coursework depending on the use of COMM 2513, must be taken from other communication elective course offerings.

MINOR
Students majoring in other programs may complete a minor in communication. The minor consists of a minimum of 21 hours of courses including: (1) 1113 or 2613; (2) 2713; (3) a minimum of 15 additional hours, of which at least nine must be upper-division level; and (4) 4990 may count for no more than three hours of the minor. At least six hours must be earned in courses acceptable for residence credit by Arts and Sciences standards, that is, excluding transfer, correspondence, and advanced placement examination (AP, CLEP, Advanced Standing) credit. Courses for the minor may not be taken Pass/No Pass.

Graduate Study

AREAS OF SPECIALIZATION
Influence/Interpersonal, Language and Social Interaction, Political/Media, Health, and International/Intercultural are the five areas of specialization for M.A. and Ph.D. students.

PREREQUISITES FOR FULL GRADUATE STANDING
In addition to meeting the general requirements of the Graduate College, the students should have completed 15 hours of undergraduate courses in communication and a course in statistics. The department requires a 3.50 grade point average on master’s work for admission in full standing to the Ph.D. program and a 3.00 grade point average on the last 60 hours of undergraduate work for admission to the master’s program. Applicants to the Ph.D. program should submit a composite score of at least 1050 (verbal and quantitative combined) on the Graduate Record Examination. Graduate Record Examinations are not required for M.A. applicants unless they are requesting an assistantship. A writing sample (e.g., thesis or term paper) is also required. Conditional admission may be granted to students with lower grade point averages when other data warrant such admission.

REVIEW
All graduate students are formally evaluated by the entire graduate faculty each year. The Ph.D. program is research-oriented. The student is expected to be continuously involved in research so that throughout the program there is growth in the ability to do creative and independent research.

MASTER OF ARTS DEGREE
Two core courses are required: 5013, and either 5003 or 5313. The thesis master’s degree requires 26 hours including the two required courses plus thesis and oral examination. The nonthesis master’s degree requires 32 hours including the two required courses plus a comprehensive examination.

DOCTOR OF PHILOSOPHY DEGREE
Ph.D. students must complete a minimum of 90 hours of coursework beyond the baccalaureate degree. Ph.D. students must complete 19-22 required hours: COMM 5003, 5013, 5313, 6023 (6-9 hours), and 6314 and 32 hours of coursework in a major concentration. Two tools must be COMM 5003 and 5313; the student’s advisory committee determines the remaining research tool (6-9 hours total). Dissertation hours, COMM 6980, are included in the minimum 90 hours. A student must take dissertation credit for a minimum of two hours but not to exceed 15 hours. The Ph.D. student will have an advisory committee of no fewer than five, one of whom must be from outside the Communication Department. This committee may require courses other than the core courses for the student. The Report of the Advisory Conference should be approved and filed by the end of the student’s first year of work. A General Examination preliminary to advancement to candidacy must be successfully completed. During candidacy, the student must complete an acceptable dissertation and the Final Oral Examination. Detailed policies can be found in the Department’s graduate document.

Department of Economics

Alexander Holmes, Chair
Daniel Sutter, Graduate Liaison
Hester Hall, Room 329
Norman, OK 73019-2103
Phone: (405) 325-2861
FAX: (405) 325-5842
Internet: http://www.ou.edu/cas/econ/

Faculty Roster
Professors Daufenbach, Dunne, K. Grier, Hartigan, A. Holmes, Kondonassis, R. Reed; Associate Professor Clark, Ju, Sutter; Assistant Professors Chakraborty, R. Grier, Kosmopoulos, Mitra, Okediji, Rogers, Smallwood.

Degrees Offered
• Bachelor of Arts
• Bachelor of Business Administration
• Master of Arts
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

Student Organizations
OMICRON DELTA EPSILON
Both undergraduate and graduate students who have demonstrated their scholastic excellence are eligible for membership in this international economics honor society.

Scholarships, Awards, and Financial Aid
Robert Dean Bass Scholarship
The College of Arts and Sciences awards the Robert Dean Bass Scholarship to students in political science and economics who plan on careers in government.

Virgil Wilhite Award For Excellence In Economics
The College of Business Administration gives this award to the outstanding undergraduate or graduate student majors in economics.

Undergraduate Teaching Assistantships
Selected undergraduates work as teaching assistants in discussion sections of core principles courses (macroeconomics, microeconomics, and statistics). Undergraduate T.A.’s receive three credit hours per semester taught. Cash stipends are awarded subject to availability of funds.

Undergraduate Study

Students may major in economics either through the College of Arts and Sciences or the College of Business Administration.

Students interested in majoring in economics through the College of Business Administration follow the degree plan leading to the Bachelor of Business Administration which is described in the section of this catalog dealing with the College of Business.

The degree program leading to the Bachelor of Arts is offered by the College of Arts and Sciences. The major program requires 30 hours of
major work in economics with at least 15 of these hours taken at the upper-division level. Economics 1113, 1123, 2843, 3113, 3133, and 4983 must be included in the major work. Mathematics 1503 or 1523, 1743 or 1823, 2123 or 2423 are also required. Finance 3403 may be counted as major work in economics in the College of Arts and Sciences.

Economics majors must earn grades of C or better in each course in the major work.

MINOR

The minor requires at least 15 hours of major credit coursework in economics. At least nine of the 15 hours must be completed at the upper-division level. Subject to the approval of the Department of Economics, courses that are acceptable substitutes for the major are acceptable in the minor.

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**Graduate Study**

**AREAS OF SPECIALIZATION**

Econometrics; industrial organization; international and development economics; public economics; and applied microeconomics.

**REQUIREMENTS FOR ADMISSION**

Admission to the graduate program in economics is based on undergraduate academic records, letters of recommendation, and the Graduate Record Examination (GRE). Applicants for the Ph.D. degree in economics, and the research track of the M.A. degree in economics are required to complete the following coursework prior to matriculation in the graduate program:

- Intermediate Microeconomics (Price Theory) and Intermediate Macroeconomics;
- two semesters of calculus or equivalent; and
- one semester of basic statistics or its equivalent.

Applicants for the managerial economics track of the M.A. degree in economics are encouraged, but not required, to have previous coursework in economics, particularly intermediate microeconomics (price theory) and intermediate microeconomics.

**GRADUATE SCHOLARSHIPS**

The Department of Economics offers the Chong K. Liew Scholarship, the A. J. Kondonassis Scholarship, and the Chairman’s Scholarship to graduate students in economics. Please contact the department for more information.

**Master of Arts Degree**

Each candidate for the Master of Arts degree in economics can choose the research track or the managerial economics track. The research track is designed to prepare students either for further graduate study leading to the Ph.D. degree in economics or for those technical positions in business or government that require a high degree of analytical competency. The managerial economics track is designed to equip students for entry into administrative and other positions in business or government. Candidates for both tracks may choose either a thesis or nonthesis program.

The nonthesis program for the research track of the M.A. degree requires 36 semester hours. Required courses include: ECON 5153, 5123, 5163, 5213, 5853, 6213, 6313, 6353, and either 5233 or 5313. In addition, students must score a M.A. pass or better on the department’s economic core examination (see below).

The nonthesis program for the managerial economics track of the M.A. degree requires 32 semester hours. Required courses include ECON 5023, 5033, 5073, 5940, and either 5043 or 5373.

In accordance with the requirements of the University, all master’s students must also successfully pass a comprehensive examination.

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**Department of Philosophy Degree**

The requirements for the Doctor of Philosophy degree in economics include the following:

**CORE COURSE REQUIREMENTS**

The economics core consists of an economic theory and a statistics/econometrics component. The following courses are required:

1. Microeconomic Theory: ECON 5123, 6213.

The core course requirements will be completed during the first year in the graduate program.

During the week prior to the beginning of the third semester the core examination is given over the contents of the economics core courses listed above. This examination is in three parts, microeconomic theory, macroeconomic theory, and statistics/econometrics. All parts must be passed at the Ph.D. level (grades are Ph.D. pass, M.A. pass, fail). If any parts are not passed, that part or parts must be retaken during the week prior to the beginning of the fourth semester. The reexamination is automatically permitted.

**FIELDS OF SPECIALIZATION**

The fields of specialization are designed to develop an in-depth knowledge of the theory and literature in specific subject areas. Because they prepare the student to become an active researcher in those fields, they are potential areas for a dissertation. Two fields of specialization are required. Each student must choose their fields from the following five areas: econometrics, industrial organization, international development economics, and public economics. To claim a field, students must successfully complete two courses in that field of specialization and pass both a written and oral examination testing proficiency in the respective subject area. These written and oral examinations shall serve to satisfy the University’s general examination requirement.

**DISSERTATION**

In order to facilitate the transition from formal coursework to dissertation research, each student is required to enroll in Economics 5960 during the spring semester of the third year. The student will select one professor to direct his/her study in this course. In most cases, this professor will be the faculty member who has agreed to serve as dissertation chairman. The objective of this course is to lead the student to define a dissertation topic. After passing the field examinations, the student will prepare a written dissertation prospectus and submit it to the advisory committee. Upon approval of the prospectus, the student will undertake research on the approved dissertation topic. The department requires that the dissertation be completed and accepted and the final oral examination passed no later than five calendar years after the student successfully passes the field examinations.

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**Department of English**

David Mair, Chair
Richard Barney, Graduate Liaison
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**Faculty Roster**

Professors Bannet, Cottom, R.C. Davis, Hobbs, Leitch, Rapf, Schleifer, Velie, Welch, Yoch; Associate Professors Cross, Hobson, John, Kates, Mair, McDonald, Murphy, Ransom, Sawaya, Warrior, Womack; Assistant Professors Homestead, Jeffers, Kamau, Keresztesi, Ng.
Degrees Offered

- Bachelor of Arts
- Master of Arts
- Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

Undergraduate Study

BACHELOR OF ARTS

Over the last several years, the field of literary studies has changed dramatically. Across the nation English departments have begun to offer courses that encourage students to examine previously neglected texts and media in provocative and innovative ways. At the University of Oklahoma, we have responded to these developments by designing a program that enables majors to explore various options for the study of literature, written communication, and culture.

While we continue to teach classes in which we use the tools of literary analysis to study time-honored texts in the Western tradition, we also provide courses in which we use critical approaches of recent origin—historical, feminist, cross-cultural, among others—to examine a wide range of works that lie outside the boundaries of what is usually considered great literature. By offering a curriculum that is both novel and traditional, we encourage our majors to make informed decisions concerning interpretive practices that they will find valuable in any field they enter after graduation.

Study in the field of English Language and Literature offers a general humanistic education as well as skills in communication and analysis that are essential in most careers. An education in literature, criticism and language teaches students to write effectively and expressively, to think critically, to weigh values, and to communicate ideas. It provides the basis to understand and communicate with those of different cultural backgrounds, to understand the terms in which they think and speak. These skills are essential in the global market places of today and improve one’s chances of obtaining employment in a wide variety of fields.

A major in English prepares a student to work in communications, public relations, government and public service, sales, publishing, journalism, advertising, and business. It is an excellent background for teaching, and can be coordinated with a program of teacher certification. It is a highly useful major for a student considering business or law school. It provides a suitable preparation for graduate work in literature and other humanistic studies. The variety of talents among the English faculty and the various options within the major make it possible for students to shape their own programs flexibly according to their interests.

TRACKS

English majors choose one track in (1) literary and cultural studies, or (2) writing. For both tracks, majors are required to take six hours of survey courses (2433/2443, 2543/2653, or 2773/2883), two courses in literary and cultural studies (2313 and 3313), and a senior capstone course (4853).

Track 1: Literary and Cultural Studies

In this track students study literary works, movements, genres, themes, and writers in their cultural contexts. Courses emphasize reading, story, communication, language, and historical and cultural events. Students are afforded maximum flexibility in planning their degree programs. They elect seven courses distributed over at least four of six areas and may choose to take four of those courses in one area. These areas are: American Literature; Genres and Media; Theory, Criticism, and Cultural Studies; Contemporary and Early Modern British Literature; World Literature and Medieval/Renaissance. Students may elect a writing course as one of the seven and/or select courses in Women’s and Minority literatures. One of the seven courses selected must be designated multicultural.

Track 2: Writing

The writing track studies theories of written communication; students practice them extensively in various writing contexts; and explore issues concerning literacy, language, and the relation of writing to different cultures. Students elect four writing courses (three of which must be upper division) from the following: 2113 Intermediate Writing; 2123 Creative Writing; 2133 Autobiographical Writing; 3103 Topics in Advanced Composition; 3123 Fiction Writing; 3133 Poetry Writing; 3143 Studies in Literacy and Rhetoric; 3163 Writing, Rhetoric and Histories of Technology; 3173 Histories-Writing, Rhetoric and Technology; 3183 Authoring in the Information Age; 3223 Oklahoma Writers/Writing Oklahoma; 4923 Advanced Fiction Writing; 4933 Advanced Poetry Writing, and 4943 Advanced Creative Nonfiction Writing. Writing track students also take three literature courses with one of those three designated multicultural.

MULTICULTURAL REQUIREMENT

The department strongly believes all English majors should have at least some exposure to literatures other than those from the Anglo-European tradition. Therefore, all English majors are required to take at least one English course classified as Multicultural Studies. Currently 14 courses are so designated (2713, 2743, 2523, 2813, 3343, 3353, 3433, 3453, 3483, 3643, 4323, 4343, 4373, and 4383).

LANGUAGE REQUIREMENT

Proficiency in one language other than English is required as demonstrated by departmental examination or by successful completion of two intermediate courses in an ancient or modern language (with a grade of C or better in the second course). The department may also accept transfer credit to satisfy this requirement.

LANGUAGE ARTS CERTIFICATE

Students majoring in English may also work for the standard teaching certificate in language arts. Students in the language arts program must meet all of the requirements of the English major, and a few additional specifications. Information concerning the teaching certificate programs can be found in this catalog under the College of Education. Detailed checksheets of degree requirements and advisers with whom students can discuss programs of study are available in the college office.

MINORS

Students majoring in other subjects may elect to complete a minor in English either in literary and cultural studies, and/or writing. The requirements for these minors are:

Minor in Literary and Cultural Studies

A minimum of 15 hours in literary and cultural studies beyond the first-year level, at least nine of which will be upper-division. Students may not apply hours from first-year English (1113, 1213) or from English courses designated as writing course to a minor in literary and cultural studies.

Minor in Writing

A minimum of 15 hours in writing courses beyond the first-year level, at least nine hours of which will be upper-division. Writing courses that fulfill the requirements for the minor are: 2113, 2123, 2133, 3103, 3123, 3133, 3143, 3163, 3173, 3183, 4223, 4923, 4933, and 4943.

COURSES FOR NONMAJORS

Since its subject matter has wide appeal to non-majors as well as majors, the Department of English devotes a substantial portion of its staff and budget to the instruction of those who are majors in other fields. In addition to the first-year English courses, the department offers courses in literary and cultural studies as well as writing.

1. Literary and Cultural Studies. Non-majors are welcome in general education courses.
2. Writing. For those students who desire additional or specialized instruction in writing and language, the department offers a variety of courses in expository and creative writing beyond the freshman.
composition level (1913, 2113, 2123, 2133, 3103, 3123, 3133, 3143, 3153, 3163, 3173, 3183, 3223, 4923, 4933, and 4943).

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**Graduate Study**

**APPLICATION PROCEDURE**

At the time of application for admission to the University, an English departmental application form, three letters of scholastic recommendation, statement of goals in graduate education with reasons for choice of Area of Concentration (or Primary and Secondary Areas), sample of writing appropriate to program and scores on the aptitude section (M.A.) or aptitude and advanced sections (Ph.D.) of the G.R.E. should be sent to the graduate liaison, Department of English, University of Oklahoma, Norman, OK 73019-2021. Also, applications for graduate assistantships may be obtained from the graduate liaison in the Department of English.

**PREREQUISITES FOR FULL GRADUATE STANDING**

For full graduate standing, the department requires a B.A. degree in English from an accredited institution. The student’s undergraduate record should indicate adequate course preparation in composition, language studies, and literature. For full graduate standing, those students holding baccalaureate degrees in disciplines other than English from an accredited institution should have had 27 semester hours in English or appropriate courses in closely related fields. Such students with non-English degrees may be asked to complete undergraduate English courses necessary for successful graduate study in English.

**AREAS OF CONCENTRATION**

At the M.A. level the department offers the following areas of concentration: American and Native American Studies; Composition/Rhetoric/Literacy; Creative Writing; Early English; Modesty and Theory; and Women’s Writing. At the time of application doctoral students declare one Primary Area and one Secondary Area from the following: American and Native American Studies; Composition/Rhetoric/Literacy; Early English; Modesty and Theory; and Women’s Writing.

**FOREIGN LANGUAGE REQUIREMENT**

Candidates for the M.A. degree must demonstrate reading proficiency in one foreign language. Reading knowledge of two foreign languages is required for the Ph.D. degree. Students may choose from the following languages: Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Russian, Spanish or a Native American language. Under certain circumstances, the Graduate Committee may authorize the substitution of another language or may require an additional language. Proficiency in a foreign language may be established by one of the following:

1. by passing the ETS (Princeton) test in the language;
2. by passing a test administered by a University of Oklahoma department;
3. by earning at least a bachelor’s degree from a foreign institution in which instruction was in one of the required languages; or
4. by earning a grade of B or better in two 3-hour reading courses in the language (e.g., French 1013-1023) either by enrollment in the courses or by taking only the final examination in the second course of the selected sequence.

**Master of Arts Degree**

Candidates have the option of either a 33-hour thesis program or a 33-hour program with a comprehensive examination. A Masters in Literary and Cultural Studies requires one course in Graduate Research and Writing or in Literary Criticism and Theory; one course in Composition, Rhetoric, and Literacy; two courses in a primary concentration at the 5000 or 6000 level; and five courses distributed across three other areas of concentration. A Masters in Composition, Literacy, and Literacy (CRL) requires a course in Introduction to Issues in CRL; a course in Teaching College Composition and Literature; a course in the History of Rhetoric/Composition Theory or in the History of Modern Composition Studies; a course in Literary Criticism and Theory; two courses in Literary and Cultural Studies concentrations; and three elective courses. For both Masters degrees, two English courses may be at the 4000 level, but the other coursework must be at the 5000 or 6000 level. Candidates pursuing the nonthesis option will take the M.A. Comprehensive Exam.

**Doctor of Philosophy**

The Ph.D. degree requires 57 hours beyond the 33 hours of the M.A., or 90 hours beyond the B.A. A degree in Literary and Cultural Studies requires one course in Literary Criticism and Theory; four courses in the primary area at the 5000- or 6000-level; two courses in the secondary area; and one course in three different areas other than the primary and secondary areas. A concentration in Composition/Rhetoric/Literacy Studies requires one course in research methods in Rhetoric and Composition (a 6000-level seminar); four other courses in CRL, two of which must be in history of composition or rhetorical theory at the 5000-level, and one one of which must be a research seminar in CRL at the 6000-level; two 5000 or 6000-level courses in Literary and Cultural Studies. The remaining courses for both Literary and Cultural Studies as well as Composition/Rhetoric/Literacy Studies are electives.

The Ph.D. program requires a general examination which includes both a written and oral component, and a dissertation. The written component of the general examination consists of two parts which focus on the student’s primary and secondary areas of study. In addition, doctoral students must teach at least half-time at the college level for one year in order to receive the Ph.D. degree.

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**Film and Video Studies**

Andrew S. Horton, Jeanne Hoffman Smith Professor of Film and Video Studies, Director

Old Science Hall, Room 302
Norman, OK 73019-2009
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Internet: [http://www.ou.edu/fvs/](http://www.ou.edu/fvs/)
e-mail: fvs@ou.edu

**Faculty Roster**

Professor Horton; Assistant Professors Rhodes, Sturtevant.

**Degree Offered**

* Bachelor of Arts

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**Undergraduate Study**

**BACHELOR OF ARTS**

The undergraduate degree in Film and Video Studies is an interdisciplinary course of study that provides a comprehensive background to both the scholarly and practical study of the moving image. The curriculum covers the history, theory, criticism, art, and practice of film and other screen media through its core course requirements. Students will learn the skills needed to interpret film and other screen media critically, and “to read” and write about them creatively and analytically. Courses will also focus on social, political, cultural, and economic contexts. Interdisciplinary electives in the major allow students the flexibility to pursue their specific interests, be they film and video studies, writing about film, screenwriting, or production. Students may select from a wide variety of courses in Art, English, Film and Video Studies, History, Journalism and Mass Communication, as well as
approved courses from other academic units. Coursework can be reinforced by internships and research opportunities available within the United States and abroad, as well as through workshops, symposia, and special guests on campus.

The Film and Video Studies major requires 39 hours of coursework, including 18 hours at the upper-division level. The following seven core courses must be completed:

- FVS 1013, Introduction to Film and Video;
- FVS 2013, Film History to 1945, and
- FVS 2023, Film History, 1945–Present;
- JMC 2683, Survey of Broadcasting and Electronic Media;
- JMC 3723, The Documentary Film;
- FVS 3213, Media Theories and Methodologies, or ENGL 4253, Introduction to Film Theory; and
- FVS 4013, Senior Seminar in Film and Video (Capstone).

In addition, 18 hours must be completed from a selection of approved courses from film literature, documentary film, film scriptwriting, visual communication, filmmaking, video production, radio-television-film performance, and other courses as approved. Nine of these 18 hours must be upper-division level.

MINOR

The minor in Film and Video Studies consists of 18 hours, including nine at the upper-division level. The following courses must be completed:

- CORE REQUIREMENTS (9 hours)
  - FVS 1013, Introduction to Film and Video;
  - FVS 2013, Film History to 1945, or FVS 2023, Film History, 1945–Present; and
  - JMC 2683, Survey Broadcast and Electronic Media.

Nine hours (three courses) at the upper-division level from other courses approved for the major in Film and Video Studies.

Graduate Study

Graduate programs in Film and Video Studies may be constructed according to the standard interdisciplinary degree procedures of the Graduate College (refer to the sections entitled Special Master’s Degree and Interdisciplinary Doctoral Program in the Graduate College portion of this catalog). Participating members of the Film and Video Studies faculty are available to assist with degree planning at the master’s or Ph.D. Levels.

Department of Health and Exercise Science

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e-mail: eltaylor@ou.edu

Faculty Roster

Professors: M. Bemben, Gabert, Gardner; Associate Professors D. Bemben, Dinger, Hofford, Ratliff, Taylor; Assistant Professors Fields, Heesch.

Degrees Offered

- Bachelor of Science in Health and Exercise Science
- Master of Science
- Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

General Information

A growing responsibility of the University of Oklahoma is meeting the needs of a changing society by proposing theoretical and practical solutions to contemporary problems. The Department of Health and Exercise Science contributes to this mission through teaching, research, and service activities in the areas of exercise science and health promotion.

The undergraduate program consists of a single core curriculum emphasizing applied science and professional preparation. The core is combined with an elective block sufficiently broad to allow students to develop strong preparation in an area of personal interest related to health, exercise, and sport. A minor in athletic coaching is also available at the undergraduate level. The graduate program consists of specialized core curriculum, Health and Exercise Science, with two options: Exercise Science and Health Promotion.

The department encourages participation in the Honors College, departmental research projects, internship and fieldwork experiences, and professional organizations and societies. All such activities are designed to enhance the basic academic preparation associated with coursework in the core and elective blocks.

Programs for Academic Excellence

The Department of Health and Exercise Science supports the position that students should receive both broad educational preparation and disciplinary specialization in order to prepare effectively for future professional demands. This includes: strong general education preparation with an emphasis in biological and behavioral sciences; a core of requisite coursework in HES; and an individualized block of elective coursework.

The department is equally proud of preparation and academic standards at the graduate level. The graduate program is demanding and comparable to programs at peer institutions which are much larger and offer doctoral degrees.
Facilities

The Department of Health and Exercise Science is located in the Huston Huffman Physical Fitness Center opened in 1981. The department is housed in the west wing of the building and maintains classrooms, research laboratories, and faculty and graduate student offices. The east wing of the building houses the student recreation and intramural activity areas. The department recently acquired approximately 3500 square feet in the old Collins Commissary for additional teaching and research laboratories.

The department encourages interdisciplinary study and research. Students interested in special projects have access to facilities housed in Intramural-Recreational Services, the Athletic Department, the Oklahoma Center for Continuing Education, Goddard Health Center, and Health Sciences Center sites. In addition, faculty and students frequently interact with members of other University academic units in the Colleges of Arts and Sciences, Business Administration, Education, Engineering, Medicine, Public Health, and Allied Health.

Scholarships and Financial Aid

The department offers the Mary Anne Price Undergraduate Merit Scholarship and the Glen Michael Sims Memorial Graduate Merit Scholarship. Application is restricted to HES majors. Students should contact the department for further information and applications at 1401 Asp Avenue, Room 104, Norman, OK 73019-6081, (405)325-5211.

Students accepted in the Master of Science program are eligible for financial aid in the form of teaching and research assistantships. The stipend ranges from $4,500-$9,000 for 10-20 hours per week during the nine month academic year (plus waiver of out-of-state tuition and up to six credit hours of in-state tuition). The opportunity for partial waiver of out-of-state fees exists for graduate students. Tuition support for resident students may be available from the Department and the Graduate College. All students should seek advice from the University of Oklahoma Financial Aid Services Office.

Undergraduate Study

Since the Fall Semester of 1999, majors have been selected for matriculation into the upper division undergraduate core curriculum from a pool of students who have completed the pre-requisite coursework identified as “Pre-HES.” Approximately ninety (90) students per year will be selected for matriculation based on the criteria listed below. Other criteria for selection in addition to completion of prerequisite courses are 1) prerequisite course GPA and 2) combined retention GPA.

Pre-registration and career advisement for those students who declare the pre-HES curriculum will be conducted within the department by designated advisers. Please contact the HES support staff for additional information.

Application Information and Criteria for Matriculation

1. Deadline for application is January 30 of each year.
2. Minimum eligibility requirements for application:
   a. 2.50 retention and prerequisite course grade point average;
   b. 60 credit hours completed prior to enrollment in Fall after admission to HES and a minimum of 45 hours completed at the time of application;
   c. completion of the following prerequisite courses with a grade of C or better:
      - HES 2131, 2823, 2913, 3813;
      - ZOO 1114 (or 1005), 1121, 2124, and 2255;
      - CHEM 1315;
      - PSY 1113 or equivalent;
      - SOC 1113 or equivalent;
      - COMM 1113 or 2613 or 3483;
      - ENGL 1113 and 1213; and
      - MATH 1503 or higher.
3. Matriculation ranking based on combined retention GPA and GPA of prerequisite courses (as defined above).

4. Students who do not meet minimum eligibility requirements for matriculation can petition the HES Undergraduate Committee for an exception.

Bachelor of Health and Exercise Science

The Health and Exercise Science major program is designed to meet the needs of students who plan to work in specialized health, fitness, and sport fields, and to prepare students for graduate studies in Health and Exercise Science or related fields. Progress toward the degree can best be facilitated through regular advisement with department faculty. Students should be aware that all courses are not offered every semester. The department office will provide degree plans, checksheets, and adviser assignment upon request.

The HES core includes the following courses: HES 3513, Health Promotion Program Planning; 3813, Principles of Health, Fitness, and Sports Medicine; 3823, Physiology of Exercise; 4213, Management in Health and Exercise Science; 4953, Senior Capstone; and two 1000-level HES lifetime activity courses. In addition to completion of the required core courses, students are required to complete 12-24 hours of HES elective coursework.

An HES major must complete a minimum of 39 hours of major coursework with at least 30 of these hours at the upper-division level. Selection for matriculation to the upper-division core curriculum is required in order to enroll in all 3000- and 4000-level Health and Exercise Science courses. HES majors must earn grades of C or better in all HES and prerequisite courses.

SERVICE COURSES

HES courses numbered below 2000 are basic skills courses which include the teaching of sport specific skills, rules and regulations, and nomenclature of the sport. The basic skills courses represent lifetime health, fitness and leisure activities to enhance the lifestyle of all participants. All service courses are graded S/U and have attendance requirements.

MINOR

A minor in Preparation for Athletic Coaching requires a minimum of 16 hours of courses acceptable for major credit, including at least nine upper-division hours. The following HES courses must be completed: one beginning sport course; one hour of weight training (1121/1131) or individual fitness (1221); 2022, 2212, a theory of sport course selected from 3052, 3072, or 3990; 3502, three hours selected from the following upper-division courses: 3253, 3843, 3853, 4213, 4243, 4543, 4623 or 4233, and up to three hours of 3430.

All required courses must be completed before enrolling in HES 3430. Requirements of field experience include written documentation of: purpose; seasonal goals and objectives; specific time analysis for one week in the season; evaluation of the study by the cooperating coach; evaluation of the experience by the student; and participation by the student in an entire coaching season including a minimum of 10 clock hours per week and 135 hours per season. The participation by the student should allow time for observation of other coaches in action, as well as actual participation as a coach.

Graduate Study

ADMISSION

An undergraduate degree in Health and Exercise Science or an equivalent allied field such as biological sciences, business administration, health sciences, human development, or psychology is required. Applicants holding equivalent degrees will be evaluated by the department for course deficiencies. If course deficiencies exist, a student may be admitted conditionally, but all deficiencies and conditions must be removed before a student can be fully admitted. Removal of deficiencies is required prior to taking the comprehensive examination or enrolling in thesis hours.

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A grade point average of 3.0 on a 4.0 scale over the last 60 hours of undergraduate work is required for full admission. Applicants with less than a 3.0 may be admitted conditionally. Students must complete the Graduate Record Examination (GRE) prior to admission. Admission will be based on GRE scores, undergraduate grade point average, undergraduate coursework, letters of recommendation, and an interview.

In addition to graduate program admission requirements, applicants for graduate assistantships must submit professional recommendations supporting teaching/research ability.

Master of Science Degree

Students enrolling in a Master of Science degree program must complete a minimum of 36 graduate hours in Health and Exercise Science including coursework from the Department of Health and Exercise Science (HES) and any graduate electives from other departments.

Each area of study requires a basic core of graded courses, an area of electives related to the degree option and approved by the student's adviser, and completion of a research requirement. The research requirement involves a minimum of eight credit hours, including HES 5953, a graduate course in statistics, and a thesis or nonthesis project.

A student may elect a thesis or nonthesis program of study. A thesis program requires a minimum of 32 hours of coursework in addition to four hours of thesis credit and satisfactory defense of a thesis (HES 5980). The nonthesis program requires completion of a minimum of 34 hours of coursework, plus two credit hours of an approved research experience (HES 5940) under faculty supervision and satisfactory performance on a comprehensive examination.

PROGRAM OPTION Health and Exercise Science

An interdisciplinary program integrating health education/health promotion, applied exercise physiology and nutrition which is designed to prepare students for health/fitness professions, working in a variety of settings and with varied target groups. Core: HES 5523, 5563, and 5853. Extended Core: Health Promotion—HES 5553 and a three-credit hour approved graduate nutrition course, or Exercise Science—HES 5833 and 5863.

Doctor of Philosophy Degree

The doctoral degree in Health and Exercise Science is awarded for excellence in research scholarship in combination with successful completion of an approved program of study consisting of coursework within and external to the Department of Health and Exercise Science. It signifies the attainment of independently acquired and comprehensive learning which evidences general professional competence. A doctoral student should, under normal conditions, spend at least the equivalent of five full academic years beyond the bachelor's degree. During this period the student shall take appropriate graduate coursework, successfully complete the General Oral and Written Examination, and submit and successfully defend the results of original research as a dissertation. The total number of hours, combining both formal courses and hours of research, for the doctoral degree will be at least 90 post-baccalaureate hours excluding the credit hours required to gain proficiency in the tools of research. Departmental requirements will conform to University policies in the following areas: (1) residency requirements, (2) limitations to the number of 3000/4000 level courses that may be applied to the degree, (3) transfer credit, (4) time limitations, (5) general examination, (6) use of human subjects/animals in research, and (7) completion and defense of the doctoral dissertation.

ADMISSION

Admission will be granted on the basis of undergraduate and graduate grade point average, satisfactory scores on the Graduate Record Examination (GRE), a statement of purpose related to their academic research and professional goals, and at least three letters of recommendation. Applicants are expected to have a bachelor's and/or master's degree in a curriculum which will provide a solid foundation for doctoral study in the disciplines of health promotion and exercise physiology. Because of the professional nature of these disciplines, on the job experience will also be considered. Those applying with less than adequate training may be required to take requisite coursework before receiving full admission status.

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Department of History

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Warren Metcalf, Graduate Liaison
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Faculty Roster


Degrees Offered

• Bachelor of Arts
• Master of Arts
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

General Information

The Department of History at the University of Oklahoma offers undergraduate and graduate students, and history majors in particular, a wide range of courses covering virtually every major epoch in history. The needs and interests of the students have been taken into account in an effort to create programs that are flexible and look to the students' future careers. Considerable attention is given to advising students concerning the appropriate courses to be chosen for their majors and careers after graduation.

The type of history courses required of undergraduate majors has been determined according to two general assumptions: a history major, through lower-division historical surveys, should (1) receive a general coverage of knowledge about different areas of the world; and (2) obtain, through upper-division courses, more specialized knowledge about specific areas or eras of the world.

Career Opportunities

The career opportunities for undergraduate history majors are varied. A number of history majors find their training is ideally suited for a career in law. The history major may also plan a career in education, either in teaching or administration. In the past several decades, businesses have found graduates with liberal arts backgrounds to be prime candidates for executive training programs and, as a result, many history majors have developed rewarding business careers. The federal government also hires history majors for all facets of its operation. For example, the Foreign Service has utilized the skills of many with history backgrounds in the diplomatic corps. Also, the National Park Service, responding to the increased interest in historical preservation, needs graduates with degrees in history. History majors may find that opportunities await them in museum and archival work because Americans have become more interested in their past. Aside from
the many career benefits, history majors will discover that their studies will give them the perspective to participate more fully in the world around them.

**Scholarships and Financial Aid**

For a number of years, the Department of History has offered several undergraduate prizes carrying cash stipends to outstanding students, both history and non-history majors. Students are nominated for these awards by a History Department faculty member.

The Horace C. Peterson Memorial Scholarship Award is presented to the outstanding undergraduate student majoring in history, preferably to a person who intends to continue the study of history in graduate school.

The Donnell M. Owings Scholarship is awarded to undergraduate students in American history. Professor Owings taught at OU from 1946 to 1966 and was recognized as a distinguished scholar in American genealogy and Colonial History.

The Alfred B. Sears Award for the outstanding student in British history, was awarded for the first time in 1979. Any student, major or nonmajor, undergraduate or graduate, who has taken a minimum of nine semester hours in courses designated as English history, is eligible for this award.

The William H. Maehl, Jr., Fellowship is awarded annually to the student who writes the outstanding senior thesis in a capstone course.

The History Department has graduate assistantships available each year.

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### Undergraduate Study

Majors must complete 36 hours of major work in history including 1483 or 1493 and one course from each of the following groups:

1. **Ancient/Medieval**—1113, 1613, 1913, 2013, 2023;
2. **European**—1223, 1233, 1623, 1923;
3. **Near/Far Eastern**—1723, 1733, 2013, 2683;
4. **Latin American/African**—1923, 2613, 2623, 2713.

The remaining 24 hours must be at the 2000 level or above and are to be distributed among three fields: United States; African/Asian/Latin American/Russian/Near East; European. At least nine hours in one field and six in each of the other two fields must be completed. A senior seminar (4973) must be included in the 24 hours. Fifteen of the 24 hours must be completed at the 3000 level or above. A 2000-level course that has been used to fulfill a survey requirement cannot be used toward the 24 elective hours.

Many pre-law students choose history for a major. Students pursuing the history major with a pre-law interest must fulfill all the normal requirements for the major, including at least 36 credit hours distributed among the American, European, and African/Asian/Latin American/Russian/Near East; European. At least nine hours in one field and six in each of the other two fields must be completed. A senior seminar (4973) must be included in the 24 hours. Fifteen of the 24 hours must be completed at the 3000 level or above. A 2000-level course that has been used to fulfill a survey requirement cannot be used toward the 24 elective hours.

The selection of a seminar (4973) to fulfill the senior seminar requirement should, where possible, reflect the pre-law interests of the student and should be made in consultation with the pre-law adviser. In recent semesters the department has offered seminars of interest to pre-law students on topics such as American environmental history, and modern American social problems.

Students majoring in history may also work for the standard secondary teaching certificate in social studies. For information consult an academic counselor in the College of Arts and Sciences office.

**MINOR**

Students majoring in other subjects may elect to minor in history. The requirements are at least 15 hours of history courses acceptable for major credit including at least nine hours numbered 3000 and above.

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### Graduate Study

**AREAS OF SPECIALIZATION**

The department’s greatest strengths are in the history of the American West and Native American history. The department also offers advanced degrees in American history, European history, Latin American history, Far Eastern history, African history, ancient history and Jewish history.

**PREREQUISITES FOR FULL GRADUATE STANDING**

Applicants for the M.A. and Ph.D. programs must submit official transcripts of all previous academic work with their applications to the Office of Admissions, and must submit three letters of recommendation, scores on the Graduate Record Examination (GRE), a statement of purpose, and a writing sample to the department. Ph.D. applicants are expected to hold the M.A. degree. Detailed information on programs is available from the graduate liaison, Department of History.

**Master of Arts Degree**

The department offers two options leading to the Master of Arts degree: thesis and nonthesis. The thesis program requires a minimum of 30 hours, including two graduate seminars, HIST 5054, and a thesis. The nonthesis program requires at least 34 hours; two graduate seminars, HIST 5054, and passing a comprehensive examination. Work in cognate fields must be approved by the student’s adviser. Detailed information may be obtained from the graduate liaison of the department.

**Doctor of Philosophy Degree**

Work leading to the Ph.D. degree is offered in certain fields. Detailed information may be obtained from the graduate liaison of the department.

In addition to fulfilling the special requirements for the master’s degree, the doctoral candidate must complete at least four seminars, HIST 5054, and prepare for examinations over three fields of history. Reading proficiency in one foreign language is required of all doctoral candidates.
Programs for Academic Excellence

The history of science has been designated an area of future emphasis within the College of Arts and Sciences, in the University’s Strategy for Excellence. The foundations of the University’s commitment to emphasis in this field are the superb History of Science Collections, and a department of nine historians of science dedicated to a comprehensive program of teaching and research.

Through a generous grant made by the Andrew W. Mellon Foundation, the History of Science program provides travel fellowships for visitors to make use of its resources for research in the history of science. In addition to working in the collections, visiting fellows interact with students and faculty in the program and frequently present the results of their research to the university community.

Undergraduate Study

MINOR

Students may elect a minor in history of science. The minor requires 15 hours of history of science courses, of which at least nine hours must be at the 3000-level or above.

Graduate Study

AREAS OF SPECIALIZATION

Chronological areas of study include ancient and medieval science, early modern science, and modern science. Thematic areas of specialization include, but are not limited to, the medieval Judeo-Christian and Islamic scientific traditions, natural history and field sciences, modern social and biological sciences, and the history of science in America.

The programs of study leading to the M.A. and Ph.D. degrees will entail the student’s enrollment in history of science courses, history, other approved courses outside the department, and extensive use of the materials contained in the History of Science Collections.

ADMISSION REQUIREMENTS

Requirements for admission and prerequisites for full graduate standing include those set forth in the general requirements of the Graduate College, together with departmental requirements tailored to fit individual student backgrounds and scholastic needs. In addition, the department requires each applicant to submit a Graduate Record Examination (General Test) score.

Programs of graduate study leading to the Master of Arts degree and the Doctor of Philosophy degree have been offered in history of science since 1954 to students possessing a variety of undergraduate backgrounds. Each student’s program is accordingly formulated on an individual basis in conference with a committee of the faculty of the department.

MASTER OF ARTS DEGREE

Requirements for the master’s degree normally include reading proficiency in an appropriate foreign language and satisfactory completion of a master’s thesis. With departmental approval, a student not intending to pursue the Ph.D. degree may follow a nonthesis option, which includes a comprehensive final examination.

MASTER OF ARTS IN HISTORY OF SCIENCE/MASTERS OF LIBRARY AND INFORMATION STUDIES

The History of Science Department and the School of Library and Information Studies offer a dual degree program for their two fields. Students apply to and are accepted by each department. Dual-degree students work with a joint advising committee made up of members of both units. They take the comprehensive master’s degree examination in each department and meet the requirements for the master’s degree in...
each department. The total course load requirement is 18 courses or 54
credit hours, including a minimum of 27 credit hours in each department.
Students may choose to write a thesis in the History of Science.

DOCTOR OF PHILOSOPHY
Students matriculating for the doctoral degree must demonstrate reading
proficiency in at least two appropriate foreign languages (usually chosen
from French, German, and Latin) before being admitted to candidacy.

In addition, students are required to complete 15 hours of HR coursework
in three categories of electives: organizational studies, diversity, and current
problems. Students must take at least one course from each category,
which provides the student coursework in each area, but also allow them
to concentrate in an area of interest. In so doing, the student can focus on
taking courses most relevant to their career goals.

Undergraduate majors must also complete 15 hours of non-human
relations guided electives, one from each of the following categories:

• Cultural diversity—one course from a broader range of diversity
offering, chosen from the following group, or an alternate course
approved by the department: AFAM 2003, 3113, 3213, 4013;
ANTH 1613, 1823, 2203, 2613, 3453, 3553, 4303, 4623, 4633,
4843; NAS 3113; or W S 2003.
• Communication—COMM 1113, Intro. to Communication, or
COMM 2613, Introduction to Public Speaking.
• Economics—ECON 1113, Principles of Macro Economics.
• Ethics—PHIL 1213, Introduction to Ethics.
• Statistics—this course serves as the foundation for H R 4503. May
be chosen from the following group, or an alternate course
approved by the department: COMM 2513, ECON 2843, P SC
3123, PSY 2003, SWK 2223, or SOC 3123.

Graduate Study
The Master of Human Relations degree (M.H.R.) prepares graduates for
careers focusing on research and/or resolution of human relations
problems.

Particular attention is given to students who work part-time and full-time.
To accommodate both “traditional” and “nontraditional” students, courses
are offered on the Norman campus, at the Schusterman Center in Tulsa,
and through Advanced Programs in day, evening and week-end formats.
Since its inception, the Department has graduated a large number of ethnic
minorities, women, older persons returning to college, and international
students.

Each student pursuing a Master of Human Relations degree is expected to
initiate curriculum planning with a major adviser within the first semester.
This planning will identify course sequences which seem most likely to lead
to mastery in one or more areas of concentration. Some students may not
need to design a unique program but may select from concentration
options in which the course sequences have been designed by the faculty.

AREAS OF SPECIALIZATION
Human relations counseling; organizational studies; women’s studies;
human relations in education; social change; and international human
relations.

SCHOLARSHIPS AND FINANCIAL AID
Tuition waivers are available to selected Oklahoma residents. For
information on non-departmental assistance, consult the Office of Financial
Aid Services.

ADMISSION REQUIREMENTS
Efforts will be made to identify and select candidates whose academic
preparation, personal qualities, past educational experiences, volunteer
activities, and work experiences give promise for success in the program.
Before applicants can be admitted to full graduate standing in the
Department of Human Relations, candidates must satisfy the general admission requirements of the Graduate College. In addition, applicants to the Department of Human Relations must complete departmental application requirements. Applicants should contact the department about required procedures.

**Master of Human Relations Degree**

The curriculum may be a nonthesis, 36 semester credit hour program, or a 32 semester credit hour program, including four hours of research for master’s thesis. The internship is an integral aspect of skill development for all human relations majors. A concentration in a particular area of human relations may incorporate the thesis or nonthesis option.

**Nonthesis Option**
Candidates selecting this option must include in their program the following Human Relations courses: 5003, 5013, 5023, 5093 and six hours of 5200. A comprehensive examination is required prior to completion of the degree. This examination will be based on major concepts, issues and strategies underlying the field of human relations, plus areas of concentration.

**Thesis Option**
As with the nonthesis option, the following Human Relations courses are required: 5003, 5013, 5023, 5093 and six hours of 5200. A thesis is required.

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**Interdisciplinary Perspectives on the Environment**

Deborah W. Dalton, Director
Linda Wallace, Professor of Botany and Microbiology
Zev Trachtenberg, Associate Professor of Philosophy

Sarkeys Energy Center, Rooms 434 & 438
Norman, OK 73019-1000
Phone: (405) 325-0595
Internet: [http://www.ou.edu/cas/ipe/](http://www.ou.edu/cas/ipe/)

**MINOR**

Environmental problems are complex and multifaceted, and cannot be adequately understood from within any single academic discipline. The College of Arts and Sciences has established the Interdisciplinary Perspectives on the Environment (IPE) minor for students who seek to develop skills in specific fields related to environmental issues while remaining firmly grounded in an interdisciplinary outlook. By making students conversant with a variety of approaches to the environment, the IPE minor prepares them for the interdependent world where their success will depend on their ability to share and use knowledge about different societies and their cultures.

The minor consists of 15 credit hours including the IPE core and one course each from the humanities, social sciences and sciences.

**IPE Core Courses:**
- IPE 1013, Intro. to Interdisciplinary Perspectives on the Environment
- IPE 4003, Senior Practicum in the Environment

**Humanities Courses — 1 of the following:**
- ENGL 4453, Landscape and Literature
- ENGL 4723, Emerson, Thoreau, and Whitman
- HIST 3493, American Environmental History
- HSCI 3473, History of Ecology & Environment
- NAS 3113, Native American Philosophy
- PHIL 3293, Environmental Ethics

**Social Sciences Courses — 1 of the following:**
- ANTH 4103, People and Plants
- ANTH 4533, Human Ecology of the Humid Tropics
- GEOG 3253, Environmental Conservation

**Science Courses — 1 of the following:**
- BOT 2404, Ecology & Environmental Quality
- BOT 3453, Principles of Plant Ecology
- BOT 4553, Plant Geography
- CE 3212, Environmental Engineering I
- ES 4493, Environmental Evaluation and Management
- GEOG 1114, Physical Geography
- GEOG 4283, Biogeography
- GEOL 3154, Environmental Geology
- GEOS 2004, Evolution of the Earth System
- METR 1014, Introduction to Weather and Climate
- ZOO 3403, Principles of Ecology
- ZOO 4093, Behavioral Ecology

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**School of International and Area Studies**

Robert H. Cox, Associate Professor of Political Science, Director
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FAX: (405) 325-7402
Internet: [http://www.ou.edu/ias](http://www.ou.edu/ias)
e-mail: [rhcox@ou.edu](mailto:rhcox@ou.edu)

**Faculty Roster**

Professors K. Grier (Economics), Ralston (Management); Associate Professors Cox (Political Science), Yu (Modern Languages); Assistant Professors Alhawary (Modern Languages), Cane-Carrasco (History), DeNevers (Political Science), R. Grier (Economics), Grillot (Political Science), Kawabata (Political Science), Landis (History), Lucas (Political Science), Owens (Educational Leadership), M. Smith (Political Science).

The School of International and Area Studies faculty are jointly appointed in the School and another academic department.

**Degrees Offered**
- Bachelor of Arts in International and Area Studies
- Master of Arts in International Studies

**General Information**

The School of International and Area Studies (SIAS) is an interdisciplinary academic unit. SIAS activities are supervised by a group of faculty who hold joint appointments in a number of academic disciplines, but who all share a common interest in international research and international education. The mission of SIAS is to promote internationalization of the curriculum of the University of Oklahoma and to train students to succeed in an increasingly interdependent world where their success will depend on their ability to share and use knowledge about different societies and their cultures. Students take a wide range of courses drawing from the departments of Anthropology, Communication, Economics, English, Geography, History, History of Science, Film and Video Studies, Modern Languages, Literatures, and Linguistics, Philosophy, Political Science, Sociology (College of Arts and Sciences); Art History, Music History (College of Fine Arts); Geography (College of Geosciences); Architecture (College of Architecture); Management (Price College of Business); Educational Leadership (College of Education), among others.
CAREERS
The School of International and Area Studies provides the first stage for students interested in foreign service, international relations, business, law, research, teaching, public service, or any other career where international knowledge and experience is useful and desirable.

Undergraduate Study
The program offers the Bachelor of Arts in International and Area Studies degree with areas of concentration in East Asian, European, International Studies, Latin American, and Russian and East European Studies. SIAS also offers a minor in African Studies and Middle Eastern Studies. Students majoring in International and Area Studies must take at least a combined total of 30 hours of major credit. At least 18 hours must be at the 3000-level or above. In addition, 16 hours of foreign language relevant to the geographical area of concentration.

MINOR
Eighteen hours selected from the following approved list of courses, including at least nine hours at the upper-division level.

ANTH 4303; ARCH 4970 (African Architecture); ECON 4853; ENGL 2713, 3343; GEOG 3223, 3853; HIST 2713, 3740, 3743, 3783; SOC 3753.

Courses not on this list may be substituted with the approval of the coordinator for African Studies.

East Asian Studies
Ning Yu, Associate Professor of Modern Languages and Literatures, Coordinator
Kaufman Hall, Room 123
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e-mail: ningyu@ou.edu
East Asian Studies challenges students to integrate language and cultural skills to prepare for careers in the Pacific region. The objectives of the program are to provide an understanding of the fundamentals of the civilizations of Asia in both traditional and modern settings, and to provide a more in-depth comprehension of specific areas within the region. This concentration features courses from such departments as Anthropology, Art, Geography, History, Philosophy, Political Science, Sociology, and Modern Languages, Literatures and Linguistics. Students will obtain an educational foundation appropriate for teaching, business, research, foreign service, technological and economic development, as well as other careers related to Asia.

MAJOR
Major requirements: (30 hours, 18 must be upper-division). In addition to the core requirements set forth by the College of Arts and Sciences, students pursuing a degree in East Asian Studies will develop a course of study that is approved by the program coordinator and meets the following requirements:

Foreign Language and Literature (6 hours): Two courses at the 3000-level or above beyond the 16-hour requirement in any of the languages in the area of concentration.

History and Ideas (6 hours): Two courses that focus on Asia offered in History, History of Science or Philosophy. Examples include: HIST 1723, 1733, 3843, 3853, 3863, 3873, 3883, 3903, 3913, 3923, and IAS 3113.

Politics and Society (6 hours): Two courses that focus on Asia offered in Anthropology, Communications, Economics, Political Science, or Sociology. Examples include: ANTH 3803, COMM 3513, 4513, IAS/PSC 2603, and P SC 3623.

Arts and Culture (6 hours): Two courses that focus on Asia offered in Architecture, Art History, Film and Video Studies, English, Modern Languages, Literature and Linguistics, and Music History. Examples include: FVS 3413, MLLL 3633, 3643, MUNM 3113, 3413.

Geography (3 hours): GEOG 2603 or 4243.

Study/Work Abroad: Each student is required to spend at least one semester (summer, fall or spring), or preferably one year in an approved study abroad program or in an approved foreign work experience.

Senior Capstone Course (3 hours): IAS 4013 Senior Capstone.

Major Support Requirements: 16 hours of one foreign language relevant to the geographical area of concentration.

Free Electives: Electives to bring total applicable hours to 124, including 48 upper-division hours.

MINOR
The minor in International and Area Studies consists of 18 credit-hours of coursework approved by the area coordinator. Following are the course requirements for the Asian Studies area:

Language (3 hours) — one course in Chinese or Japanese at the 3000-level or above.

History and Culture (6 hours) — an approved combination of the following history courses as approved by the Coordinator: HIST 1723, 1733, 3843, 3853, 3873, 3883, 3923.

Electives (9 hours) — to be chosen from the following (excluding courses already taken to fulfill requirements in other areas): ANTH 3803; COMM 2003, 3513; HIST 3843, 3853, 3863, 3873, 3883, 3893, 3923; IAS 3113; MLLL 3633, 3643; P SC 3623.

European Studies
Todd Shepard, Assistant Professor of History, Coordinator
Dale Hall Tower, Room 417
Phone: (405) 325-3314
e-mail: tshep75@ou.edu
European Studies immerses students in European history and culture. The course of study includes literature, art, and geography, as well as the politics and economics of the region. The departments and schools contributing to the success of this program are Anthropology, Architecture, Art, Drama, Economics, English, Geography, History, History of Science, Music, Philosophy, Political Science, Psychology, Sociology, and Modern Languages, Literature and Linguistics. The scope of the program includes western, central and Mediterranean Europe since approximately 1500.

European Studies graduates will be capable of functioning in at least one European country in which a language other than English is spoken, and they will be able to read materials in the language of that country.
MAJOR

Major requirements: (30 hours, 18 must be upper-division). In addition to the core requirements set forth by the College of Arts and Sciences, students pursuing a degree in European Studies will develop a course of study that is approved by the program coordinator and meets the following requirements:

Foreign Language and Literature (6 hours): Two courses at the 3000-level or above beyond the 16-hour requirement in any of the languages in the area of concentration.

History and Ideas (6 hours): Two courses that focus on Europe offered in History, History of Science or Philosophy: HIST 3123, 3153, 3173, 3183, 3193, 3203, 3213, 3223, 3233, 3253, 3263, 3353, 3503, 3943; HSCI 3013, 3023; PHIIL 3333, 3713.

Politics and Society (6 hours): Two courses that focus on Europe offered in Anthropology, Communications, Economics, Political Science, or Sociology. Examples include: COMM 3513, 4513; PSC 3603, 3613, 3713, 4643; IAP/PSC 2603.

Arts and Culture (6 hours): Two courses that focus on Europe offered in Architecture, Art History, Film and Video Studies, English, Music, History, Modern Languages Literatures, and Linguistics. Examples include: AHI 4303, 4333, 4403, 4453, 4503, 4553, 4633; FVS 3833, 3843; MUHI 2323, 3333.

Geography (3 hours): GEOG 2603, 3533, or 3513.

Study/Work Abroad: Each student is required to spend at least one semester (summer, fall or spring), or preferably one year in an approved study abroad program or in an approved foreign work experience.

Senior Capstone Course (3 hours): IAS 4013 Senior Capstone.

Major Support Requirements: 16 hours of one foreign language relevant to the geographical area of concentration.

Free Electives: Electives to bring total applicable hours to 124 including 48 upper-division hours.

MINOR

The minor in International and Area Studies consists of 18 credit-hours of coursework approved by the area coordinator. Following are the course requirements for the European Studies area:

Language and Literature (3 hours) — one course in an appropriate European language at the 3000-level or above.

European History (3 hours) — one course in European history, or the history of a particular country in Europe.

European Politics and Government (3 hours) — one course to be chosen from: PSC 2603, 2703, 3603 or 3613.

Electives (9 hours) — additional hours of coursework at the upper-division level, as approved by the program Coordinator.

International Studies

Suzette Grillot, Assistant Professor of Political Science, Coordinator
Dale Hall Tower, Room 227
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The International Studies major allows students to gain a global perspective on world affairs. Through an interdisciplinary curriculum that focuses on world history, international relations and international economics, students learn how the international system operates and prepare themselves for careers in foreign affairs or international business, for advanced training in international law or business. Like the area studies programs, the international studies program requires strong understanding of a foreign language and a period of study or work abroad. Students may also combine International Studies with a minor in one of the Area Studies programs.

To complete the International Studies program, students may select courses that cross a number of world regions. Other courses may be substituted, but only with the approval of the program coordinator.

MAJOR

Major requirements: (30 hours, 18 must be upper-division). In addition to the core requirements set forth by the College of Arts and Sciences, students pursuing a degree in International Studies will develop a course of study that is approved by the program coordinator and meets the following requirements:

International Politics (6 hours): Two courses to be chosen from: IAS 3313; PSC 3550, 3563, 4523, 4543, 4553, 4613.

World History And Culture (9 hours): Three courses to be chosen from: AHI 3673, 4503; ENGL 3343, 4423, 4433; HIST 3113, 3123, 3183, 3203, 3503, 3573; MLL 4553.

Comparative Studies (6 hours): Two courses to be chosen from: ANTH 3413, 3553, 3843, 4303; COMM 3513, 4513; IAS 3113, 3413; PSC 3613, 3623, 3633, 3653, 3673, 4623, 4643; SOC 3383, 3753.

International Economics (3 hours): One course to be chosen from: ECON 3613, 3633, 4823, or 4853.

Geography (3 hours): GEOG 2603, 3513, or 3853.

Study/Work Abroad: Each student is required to spend at least one semester (summer, fall or spring), or preferably one year in an approved study abroad program or in an approved foreign work experience.

Senior Capstone Course (3 hours): IAS 4013, Senior Capstone.

Major Support Requirements: Sixteen hours of one foreign language relevant to the area, and ECON 1113, 1123, PSC 2503.

Free Electives: Electives to bring total applicable hours to 124, including 48 upper-division hours.

Latin American Studies

Robin Grier, Assistant Professor of Economics, Coordinator
Hester Hall, Room 323
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e-mail: rgrier@ou.edu

Latin American Area Studies provides a concentration in the region's history and culture. The course of study features Latin America's economic, geographic, social and political patterns as well as its problems. With a population nearing half a billion people, Latin America has traditionally been, and is now more than ever, a critical area for the United States. Students will examine the historical ties between the two regions in relation to the commonality of cultures and objectives that are becoming increasingly stronger as interdependence grows.

Students concentrating in Latin American Area Studies will choose their language specialization and begin studying the Spanish and/or Portuguese language as early as their freshman year.

MAJOR

Major requirements: (30 hours, 18 must be upper-division). In addition to the core requirements set forth by the College of Arts and Sciences, students pursuing a focus in Latin American Studies will develop a course of study that is approved by the program coordinator and meets the following requirements:

Foreign Language and Literature (6 hours): Two courses at the 3000-level or above beyond the 16-hour requirement in any of the languages in the area of concentration.

History and Ideas (6 hours): Two courses that focus on Latin America offered in History, History of Science, or Philosophy. Examples include: HIST 2613, 2623, 3683, 3690, 3703, 3713, 3733; IAS 1303.

Politics and Society (6 hours): Two courses that focus on Latin America offered in Anthropology, Communications, Economics, Political Science, or Sociology. Examples include: ANTH 3143, 3333, 3883, 3893; COMM 3513, 4513; IAP/PSC 2603; PSC 3653.

Arts and Culture (6 hours): Two courses that focus on Latin America offered in Architecture, Art History, Film and Video Studies, English, Modern Languages Literature and Linguistics, and Music History: AHI 3803, 4913; SPAN 4093, 4103.

Geography (3 hours): GEOG 2603 or 4253.

Study/Work Abroad: Each student is required to spend at least one semester (summer, fall or spring), or preferably one year in an approved study abroad program or in an approved foreign work experience.

Senior Capstone Course (3 hours): IAS 4013, Senior Capstone.
Major Support Requirements: Sixteen hours of one foreign language relevant to the geographical area of concentration.

Free Electives: Electives to bring total applicable hours to 124 including 48 upper-division hours.

MINOR

The minor in International and Area Studies consists of 18 credit-hours of coursework, including nine hours of upper-division, approved by the area coordinator. Following are the course requirements for the Latin American Studies area:

- **Language and Literature (3 hours)** — one course in Spanish or Portuguese at the 3000-level or above.
- **Latin American History (6 hours)** — HIST 2613 and 2623.
- **Anthropology (3 hours)** — ANTH 3643 or 3893.
- **Political Science (3 hours)** — PSC 3653.
- **Sociology (3 hours)** — SOC 3753 (topic area: Latin America).

**Middle Eastern Studies**

Mohammad Alhawary, Assistant Professor of Modern Languages and Literatures, Coordinator

Kaufman Hall, Room 218

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The Middle Eastern Area Studies minor allows students to combine their study of either Arabic or Hebrew with courses in the history, religions and cultures of the Middle East from Ancient to modern Times. This minor will provide the student with a basic understanding of the peoples and history of this diverse and culturally-rich region of the world and a firm foundation for further study. The cultural and language proficiency achieved will also serve as excellent preparation for a variety of job opportunities in teaching, business, government or foreign service. Students should work with the area coordinator as soon as possible to develop a coherent program of study.

MINOR

At least 15 hours, including at least 9 hours at the upper division level, selected from the following approved list of courses:

- **Language (4-5 hours)**: ARAB 1225 or HEBR 1214.
- **History (6 hours)**: HIST 2013, 2683, 3840 (Mid-East Jews in Modern Times); Rebirth of Israel; International Relations in the Middle East), 3950 (Culture and Society in the Middle East), 3953, 3983; HSCI 3453.
- **Electives (6 hours, maximum 3 hours of Arabic or Hebrew language)**: ARAB 2113, 2223; ARCH 4970 (Islamic Architecture); HEBR 2113, 2213, 3113; HIST 3113, 3120 (Jewish Mysticism), 3293, 3313, 3413, 4500 (Hist. Study of Religion), 3950, 3973, 3993, 4973 (The Middle East and the West), 4990.

Courses not on this list may be substituted with the approval of the Coordinator for Middle Eastern Studies.

**Russian and East European Studies**

Melissa Stockdale, Assistant Professor of History, Coordinator

Dale Hall Tower, Room 314

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e-mail: mstockdale@ou.edu

Russian and East European Area Studies allows students to specialize in the study of Russia and its neighboring countries in Eastern Europe and Eurasia in preparation for careers in teaching, research, business, government or foreign service. The program provides a broad and multi-disciplinary introduction to the larger region, with course offerings in languages, literature, political science, history, economics, geography, music, and film.

**MAJOR**

Major requirements: (30 hours, 18 must be upper-division). In addition to the core requirements set forth by the College of Arts and Sciences, students pursuing a degree in Russian and Eastern European Area Studies will develop a course of study that is approved by the program coordinator and meets the following requirements:

- **Foreign Language & Literature (6 hours)**: Two courses at the 3000-level or above beyond the 16-hour requirement, in any of the languages in the area of concentration.
- **History and Ideas (6 hours)**: Two courses that focus on Russia and Eastern Europe offered in History, History of Science, or Philosophy. Examples include: HIST 2803, 3763, 3770, 3793, 3803, 3813, 3833; PHIL 3333, 3713.
- **Politics and Society (6 hours)**: Two courses that focus on Russia and Eastern Europe offered in Anthropology, Economics, Political Science, or Sociology. Examples include: COMM 3513, 4513; PSC 3503, 3673, 3683; IAS/PSC 2603.
- **Arts and Culture (6 hours)**: Two courses that focus on Russia and Eastern Europe offered in Architecture, Art History, Film and Video Studies, English, Modern Languages Literatures and Linguistics, and Music History. Examples include: MLLL 3123; RUS 4173, 4183; FVS/MLLL 3133.
- **Geography (3 hours)**: GEOG 2603 or 4633.

Study/Work Abroad: Each student is required to spend at least one semester (summer, fall or spring) or preferably one year in an approved study abroad program or in approved foreign work experience.

**Senior Capstone Course (3 hours)**: IAS 4013, Senior Capstone.

**Major Support Requirement**: 16 hours of one foreign language relevant to the geographical area of concentration.

Free Electives: Electives to bring total applicable hours to 124 including 48 upper-division hours.

**MINOR**

The minor in International and Area Studies consists of 18 credit-hours of coursework, including nine hours of upper-division, approved by the area coordinator. Following are the course requirements for the Russian and East European Studies area:

- **Language (3 hours)** — one course in a relevant language (Russian or East European) at the 3000-level or above.
- **History (6 hours)** — one course in Russian History: HIST 2803, 3793, or 3813; one course in East European History: HIST 3770 or 3833.
- **Politics (3 hours)** — PSC 3503, 3673, or 3683.
- **Electives (6 hours)** — three of the remaining six hours may be drawn from the above disciplines, or all six may be drawn from the following: ECON 4823 or 4853, and/or MLLL 3133, Film and Video Studies, Communications, or courses from other departments with relevant offerings, subject to the approval of the coordinator.

**Graduate Study**

**Master of Arts in International Studies**

The program for the Master of Arts degree in International Studies provides a solid foundation in international relations theory, comparative politics, international economics, and analytic and statistical methods, comparable to that received by first-year graduate students in political science and international relations programs across the country. The more advanced work required for each major option immerses the student in the current concepts, theories, and research issues of international political, social, economic and cultural development or those of international management and business.

For substantive questions about the MAIS program, please contact:

Dr. Mitchell Smith
Director of Graduate Studies
School of International and Area Studies
Phone: (405) 325-8893
e-mail: mps@ou.edu
GENERAL REQUIREMENTS

The Master of Arts degree requires at least 36 credit hours with thesis and non-thesis options. Students must show reading and speaking competence equivalent to the completion of three college courses in one major foreign language or the equivalent of two college courses each in two foreign languages. It is strongly encouraged that every student who applies for admission to the program will have had a significant international experience, in the form of study, work, or residence abroad before commencing the degree program. Students without such prior experience will be encouraged to undertake some study or work abroad of limited duration, as approved by their advisory committees, before completing the degree.

The two major options of global affairs and global management share a common curriculum of five, three-credit-hour core courses. In addition, a minimum of at least 18 hours will be taken in one of the major options. Students who write a master's thesis will enroll in three credit hours of master's thesis; students who take the non-thesis option will take an additional course in their major option so as to reach a total of at least 36 credit hours for the degree. Non-thesis students must must pass a written and/or oral comprehensive examination. No more than 25 percent (nine credit hours) of the minimum 36 credit hours required for this master's degree may be transferred from other institutions, subject to the normal rules and procedures of the University of Oklahoma Graduate College.

ADMISSIONS PROCEDURES

Applicants should submit a University of Oklahoma Application for Admission and official transcripts to the Office of Admissions and Records, 1000 Asp, Room 127, Norman, OK 73019. Test scores and supplemental application materials should be sent directly to The School of International and Area Studies, The University of Oklahoma, 729 Elm Avenue, Room 207, Norman, OK 73019-2105.

Although the Graduate College lists the deadlines for the Fall and Spring semester as July 15 and December 1, the graduate committee for the School of International and Area Studies has set an earlier deadline to apply for admission. Applicants should submit all materials before February 15 for the Fall semester and October 15 for the Spring semester.

All applicants should submit the following admissions materials:
1. Graduate Record Examination or Graduate Management Admissions Test scores.
2. Three letters of recommendation, from academic referees if possible.
3. Statement of purpose explaining the motive for applying to the program and what the applicant hopes to accomplish during the course of study.
4. Official transcripts from all institutions attended.
5. University of Oklahoma Application for Admission.

ACADEMIC STANDARDS AND ADMISSION

Admission will be granted on the basis of undergraduate grade point average, scores on the Graduate Record Examination (GRE) or the Graduate Management Admissions Test (GMAT), a statement of purpose, and at least three letters of recommendation. Applicants will be expected to have a bachelor's degree in a discipline that will provide a foundation for graduate study in global affairs or global management. The faculty committee for the graduate program in international studies will review applications for admission. Students admitted conditionally because of low undergraduate grade point averages will be subject to the same requirements and procedures as specified by the University of Oklahoma Graduate College.

COMMON CORE CURRICULUM (15 hours)

A) The following four courses (12 credit hours): P SC 5513, International Relations Theory; P SC 5563 - International Political Economy; P SC 5663, Comparative Political Analysis; ECON 5273, Survey of International Economics.

B) One graduate course (3 credit hours) in statistical and analytic methods, from the following: B AD 5033, Statistical Modeling for Decision-Making; ECON 5023, Statistics for Decision Making; P SC 5913, Introduction to the Analysis of Political and Administrative Data; SOC 5283, Advanced Sociological Statistics.

C) Reading and speaking competence in ONE major foreign language approved by the student's advisory committee at a level equivalent to three semesters of college-level instruction, OR reading and speaking competence in TWO major foreign languages approved by the student's advisory committee equivalent to two semesters each of college-level instruction. The student's competence in the language will be certified by the ACTFL/ETS examination or by an alternative instrument approved by the OU Department of Modern Languages, Literatures, and Linguistics. Students must have fulfilled this requirement at the time of graduation.

Thesis and non-thesis options

Thesis option (with 3 credit hours for IAS 5980 - Master's Thesis): A master's thesis will be required, demonstrating the student's capacity for independent, original research, analysis, and synthesis. Each student will enroll for three credit hours of IAS 5980 - Master's Thesis. Upon completion of the thesis, the student must maintain an oral defense of the thesis.

Non-thesis option (with an additional three-credit-hour elective course to meet the 36 hour minimum): The student must pass a written and/or oral comprehensive examination on the course work for the program, administered by a committee of the faculty of the program, and take an additional three-hour elective course in the major option, as approved by the student's advisory committee to meet the 36 credit-hour minimum for the degree. The advisory committee will determine the format of the comprehensive examination.

Global Affairs Option (minimum 18 hours)

INTERNATIONAL AND COMPARATIVE POLITICS: Two courses (6 credit hours), as approved by the student's advisory committee.

COMPARATIVE AND HISTORICAL STUDIES: Four courses (12 credit hours), from Anthropology, Economics, Education, Geography, History, Philosophy, or Sociology, as approved by the student's advisory committee.

Global Management Option (minimum 18 hours)

Students pursuing the major option in global management are expected to concentrate either in the functional areas of management and marketing or in accounting and finance.

FOUNDATIONAL COURSES IN BUSINESS (four courses, 12 credit hours): Students are expected to acquire a foundation in each of the four basic functional areas of business, accounting, finance, management, and marketing. NOTE: The foundational requirement in one or more functional areas may be waived by the student's advisory committee if the student has had at least two undergraduate courses in each of those functional areas. If foundational courses are waived, the student will take additional courses from category B) or category C), as approved by the advisory committee, to meet the requirement of at least 18 credit hours in the Global Management major option.

ACCT 5013, Quantitative Financial Controls
FIN 5043, Financial Administration of the Firm
MGT 5083, Human Resource Management and Organiz. Behavior
MKT 5063, Managerial Marketing

COURSES IN GLOBAL BUSINESS (at least two courses, 6 credit hours): Students will be expected to concentrate in either accounting and finance or in management and marketing.

Concentration 1 - Accounting and Finance
ACCT 5023, International Financial Statement Analysis;
ACCT 5313, Managerial Accounting Tools
FIN 5970, International Finance

Concentration 2 - Management and Marketing
MGT 6513, Global Business and the Environment
MKT 5973, Seminar: International Marketing

If additional courses are needed to bring the student's program in global management up to 18 credit hours, they will be drawn from elective courses, as approved by the student's advisory committee, following the student's concentration either in accounting and finance or in management and marketing.
Judaic Studies

Norman A. Stillman, Professor of Judaic History, Director
455 W. Lindsey, Room 305-D
Norman, Oklahoma 73019
Phone: (405) 325-6508
FAX: (405) 325-6521
e-mail: nstillman@ou.edu

MINOR

The Judaic Studies Program offers a broad panorama of the history, languages, and culture of the Jewish people from biblical times to the present. The Judaic Studies minor will provide students not only with an understanding of a unique people in history, but an appreciation of some of the primary foundational components of Western religion and civilization. In addition, the program offers students exciting opportunities for summer, one-semester, or full study abroad in Israel. Judaic Studies offers a general civilizational minor in the history, language, and culture of the Jewish people.

The minor consists of 18-20 hours, including nine at the upper division level. A minimum of five designated Judaic Studies courses will be required, two of which must include Modern Hebrew or demonstrated proficiency.

Required courses:
- History: 3973, Judaism: A Religious History
- Modern Languages, Hebrew: 1114, Beginning Hebrew I; 1214 Beginning Hebrew II
(A student who enters the program with proficiency of the language will be required to take additional Judaic courses.)

Electives:
- History: 3120, European Jews from Ghetto to Modernity; 3293, History of Anti-Semitism; 3303, Women in North Africa; 3313, Israeli Culture Through Film; 3413 Hebrew Civilization – Ancient; 3430, American Jewish History; 3430, Hollywood and Ethnicity; 3500, Heaven and Hell; 3500, Historical Study of Religion; 3500, Jewish Mysticism; 3500, The Holocaust; 3840, Mid-east Jews in Modern Times; 3840 Rebirth of Israel; 3950, Mideast Minorities in Modern Times; 3973 History of Judaism; 3983 Medieval Jewish History; 3993 Evolution of Martyrdom; 5050/Directed Readings in any Judaic area.
- English: 3633, Bible as Literature
- Film and Video Studies: 3843, Yiddish Cinema
- Modern Languages, Hebrew: 3113, Advanced Hebrew

Electives:
- Modern Languages, Hebrew: 1114, Beginning Hebrew I; 1214 Beginning Hebrew II

Undergraduate Study

Bachelor of Arts in Information Studies

The primary focus of Information Studies is the information enterprise broadly defined. Graduates will be prepared to explore and analyze information needs and work within the organizational context to develop appropriate and effective approaches to satisfying those needs. The central theme of the Information Studies program is facilitating the link between people, whether individuals or groups, and the information necessary to their success. The goals of the Information Studies program are 1) to provide a broadly based liberal arts education focused on the knowledge, skills, and values required to design, implement, and manage information operations in any organizational setting, and 2) to prepare graduates for careers in an increasingly information-rich and information-based global society.

The Bachelor of Arts in Information Studies is an interdisciplinary program that draws courses from a variety of departments and schools. Requirements for the major in Information Studies total 39 semester hours, including an 18 semester hour required Information Studies core and 21 additional semester hours in Information Studies and cognate disciplines. Students must also complete the General Education requirements designated by the College of Arts and Sciences and any prerequisite courses required for courses in the Information Studies curriculum. The 18 semester hour required core consists of the following courses:
- LIS 2003, The Information Environment
- LIS 3003, Object-Oriented Information Systems
- LIS 4003, Information Systems and Networks
- LIS 4103, Design & Implementation of Networked Information Services
- LIS 4663, Information Studies Field Project
- LIS 4823, Internship in Information Studies

The remaining 21 semester hours include courses from six key content areas: Economics, Information and Enterprise, Interpersonal Communication, Organizational Communication, Leadership, and Information in Society. A grade of C or better is required for all major courses.

Graduate Study

Admission Requirements

MASTER OF LIBRARY AND INFORMATION STUDIES

The admission policy of the Master of Library and Information Studies (MLIS) has as its goal the selection of persons who are academically well-qualified and who exhibit a potential for contribution in the area of library and information services. The School of Library and Information Studies encourages applications from students with diverse educational, geographical, and intellectual backgrounds.
In addition to meeting the general requirements for admission to the Graduate College, applicants to the Master of Library and Information Studies degree program must meet the admissions criteria established by the University of Oklahoma Graduate College. Detailed information on admission to graduate study at the University of Oklahoma is provided in the Graduate College Bulletin.

### Appeals
Any applicant who feels that he or she has been wrongly denied admission to the MLIS program may appeal in writing to the Admissions, Financial Aid, and Academic Standing Committee.

### MASTER OF SCIENCE IN KNOWLEDGE MANAGEMENT

The admission policy of the Master of Science in Knowledge Management (MSKM) degree program has as its goal the selection of persons who are academically well-qualified and who exhibit a potential for assuming leadership roles in creating knowledge-sharing cultural environments within organizations. The School of Library and Information Studies encourages applications from students with diverse educational, geographical, cultural, and intellectual backgrounds.

Applicants for admission to the MSKM degree program must meet the admissions criteria established by the University of Oklahoma Graduate College. Detailed information on admission to graduate study at the University of Oklahoma is provided in the Graduate College Bulletin.

In addition to meeting the general requirements for admission to the Graduate College, applicants must also meet the admissions requirements for the Master of Science in Knowledge Management (MSKM) degree program.

Compliance with those requirements is demonstrated by presentation of the following documents:

1. An application to the Master of Science in Knowledge Management program.
2. A statement of purpose and goals, including a specific professional career plan and a self-assessment of relevant prior experience.
3. A professional résumé.
4. Three letters of reference from persons familiar with the applicant’s scholastic or employment record.
5. Scores for the Graduate Record Examination; GRE scores are not required for applicants who have completed a post-baccalaureate degree with a GPA of at least 3.20 on a four-point scale.

### Full Graduate Standing

An applicant may be granted full graduate standing if:

1. all required documentation has been submitted and determined to be complete, and
2. the applicant has been determined to be acceptable for admission to the Graduate College, and
3. the applicant's academic record indicates a grade point average of at least 3.20 for the last 60 hours of letter-graded undergraduate coursework or has completed a master's degree or at least 12 semester hours of letter-graded graduate coursework with a cumulative 3.00 grade point average for all graduate work, and
4. the applicant submits valid Graduate Record Examination scores.

### Conditional Admission

A graduate of an accredited four-year institution whose grade point average is below 3.20 but not less than 2.80, and who has met all other requirements for admission to full graduate standing may be admitted conditionally. A student whose grade point average is below 2.80, but who has met all other requirements, may apply for admission after completing at least 12 hours at the undergraduate (3000 or above) level in an effort to improve the grade point average and demonstrate academic competence.

### Transfer Credit

Students who transfer from another graduate program at the University of Oklahoma or from another institution may be admitted to full graduate standing in the School of Library and Information Studies if they have satisfied all of the requirements listed above. For applicability of transfer credit toward the degree sought, see also the general regulations of the Graduate College.

No more than nine hours may be transferred into the Graduate College. Applicants for admission to the MSKM degree program must meet the admissions criteria established by the University of Oklahoma Graduate College. Detailed information on admission to graduate study at the University of Oklahoma is provided in the Graduate College Bulletin.

Applicants for admission to the MSKM degree program must meet the admissions requirements for the Master of Science in Knowledge Management (MSKM) degree program.

Compliance with those requirements is demonstrated by presentation of the following documents:

1. An application to the Master of Science in Knowledge Management program.
2. A statement of purpose and goals, including a specific professional career plan and a self-assessment of relevant prior experience.
3. A professional résumé.
4. Three letters of reference from persons familiar with the applicant’s scholastic or employment record.
5. Scores for the Graduate Record Examination; GRE scores are not required for applicants who have completed a post-baccalaureate degree with a grade point average of at least 3.20 on a 4-point scale.

### Full Graduate Standing

An applicant may be granted full graduate standing if:

1. all required documentation has been submitted and determined to be complete, and
2. the applicant has been determined to be acceptable for admission to the Graduate College, and
3. the applicant's academic record indicates a grade point average of at least 3.20 for the last 60 hours of letter-graded undergraduate coursework or has completed a master's degree or at least 12 semester hours of letter-graded graduate coursework with a cumulative 3.00 grade point average for all graduate work, and
4. the applicant submits valid Graduate Record Examination scores.

### Conditional Admission

A graduate of an accredited four-year institution whose grade point average is below 3.20 but not less than 2.80, and who has met all other requirements for admission to full graduate standing may be admitted conditionally. A student whose grade point average is below 2.80, but who has met all other requirements, may apply for admission after completing at least 12 hours at the undergraduate (3000 or above) level in an effort to improve the grade point average and demonstrate academic competence.

### Transfer Credit

Students who transfer from another graduate program at the University of Oklahoma or from another institution may be admitted to full graduate standing in the School of Library and Information Studies if they have satisfied all of the requirements listed above. For applicability of transfer credit toward the degree sought, see also the general regulations of the Graduate College.

No more than nine hours may be transferred into the MSKM program from an institution other than Oklahoma State University; students may petition to transfer up to 15 hours of Oklahoma State University graduate credit.

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**School of Library and Information Studies**

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All transfer credit must be approved by the University’s Office of Admissions and the School’s Admission Committee. The conditions for transfer of credit include the following:
1. All hours must be graduate hours from an accredited institution, graded A or B, and must not have been applied toward another degree.
2. All hours must be related to and supportive of each individual’s program.

Denial of Admission
Students who have been denied admission to the MSKM program may not enroll in Library and Information Studies courses. This restriction includes students who have changed their status to unclassified after denial of admission to the program. Students who have been denied and who enroll in graduate LIS courses may be disenrolled by the School.

Appeals
Any applicant who feels that he or she has been wrongly denied admission to the MSKM program may appeal in writing to the Admissions, Financial Aid, and Academic Standing Committee.

ADMISSION OF UNDERGRADUATES
A senior undergraduate student not admitted to the School of Library and Information Studies may enroll in graduate courses offered by the school with the instructor’s permission. If the courses meet the conditions established by the Graduate College for graduate credit, they may be accepted as degree credits in the School of Library and Information Studies. Admission of undergraduates to the School of Library and Information Studies is based upon policy described in the general regulations in the Graduate College Bulletin. Students should be aware of the school’s additional requirements governing admission and should contact the school before attempting to enroll.

TIME LIMITS FOR COMPLETION OF MASTER’S DEGREE
A student is expected to complete work for the master’s degree within five calendar years from the student’s first graduate enrollment in the School of Library and Information Studies. See the general regulations of the Graduate College for an extension of time.

READMISSION
If a student withdraws from the school, readmission may be obtained by petitioning the school. If one year or more has elapsed since enrollment, the student must also apply for readmission to the Graduate College. While in most cases courses taken in previous terms in residence will be applied to the student’s degree, some courses may not be applied toward the degree. This will more likely be the case with courses taken five or more years in the past, but it may also apply to courses taken at a more recent time. The School of Library and Information Studies Committee on Admissions, Financial Aids and Academic Standing will evaluate each case on its particular merits.

REGISTRATION AND ENROLLMENT
A student may apply at any time of the year for admission to a degree program in the School of Library and Information Studies, but must comply with University deadlines. A student cannot carry more than 16 hours of graduate credit in any regular semester, or more than nine hours in a summer session, without permission of the Dean of the Graduate College. Graduate students who are employed must reduce the number of credit hours carried in proportion to the number of hours worked. This will necessarily extend the time required to complete the degree program.

When a student has been admitted to a degree program in the School of Library and Information Studies, it is assumed that the student will enroll in the program at the first registration period following completion of the admission requirements. At the student’s request, enrollment may be postponed for as much as one calendar year. If the delay exceeds one year, the entire application procedure must be restarted.

When the student is accepted by the school, a faculty adviser is assigned and noted in the student’s letter of acceptance. Upon acceptance to the program and prior to the completion of 12 hours at the latest (including any hours taken before official admission to the program), any student in the MLIS or MSKM program must file with the School a program of study showing which courses are to constitute the 36 hours to be taken for the degree, including any courses to be taken at the University of Oklahoma outside the school and any courses transferred from another institution. Students are required to work with the adviser during attendance at the school and must consult with the adviser prior to enrollment each semester. The student should also consult the adviser at any time that academic or career-related problems arise. A student’s request for a change of adviser will be given due consideration.

Degree Programs
MASTER OF LIBRARY AND INFORMATION STUDIES
The School of Library and Information Studies offers the only American Library Association-accredited master’s degree program in Oklahoma. The Master of Library and Information Studies (MLIS) degree may be taken as either a thesis or nonthesis option. While it is possible to complete the degree in one calendar year, most students take their coursework over a longer period of time. The degree must be completed within five calendar years from the time of initial enrollment.

Candidates for the MLIS, nonthesis option must fulfill the following:
1. Complete the following seven, three-hour courses:
   • LIS 5003, Information Systems and Networks for Libraries, Archives
     and Museums
   • LIS 5013, Information Sources and Services
   • LIS 5023, Theory of Library Administration
   • LIS 5033, Foundations of Information Studies
   • LIS 5043, Organization of Information
   • LIS 5353, Selection of Print and Non-Print Materials for Children,
     Young Adults and Adults
   • LIS 5803, Elements of Research
2. Maintain a B grade point average. A maximum of two grades of C may be
   applied toward the degree. Students receiving a grade of D or F in
   any letter-graded LIS course will be removed from the program.
   Additionally, any required course in which a student earns a grade of C
   must be repeated (three grades of C result in termination from the
   program). A student cannot use the course in which the grade of C was
   earned toward fulfillment of degree requirements.
3. Complete a minimum of 36 hours of graduate credit.
4. Pass a written comprehensive examination.
Requirements for the thesis option are the same, except that no
comprehensive examination is taken, and the student must complete and
defend a thesis. Six credit hours are allowed for thesis research.
A student may enroll for degree credit in courses outside the School, but the
courses chosen must relate closely to and support the student’s program as a
whole. A student wishing to take courses outside the School must include
those courses on the program plan and obtain his/her adviser’s signature.

Specialist Option—Health Sciences Librarianship
Medical, hospital, social science agencies, and other health-related agencies
need information specialists educated in health sciences librarianship. The
School of Library and Information Studies offers the following courses to
students interested in pursuing a career in this area: LIS 5613, Biomedical
Bibliography and Reference Materials; LIS 5623, Biomedical Data Bases; and
LIS 5823, Internship in Library/Information Centers. The courses are held at
the University of Oklahoma Health Sciences Center. Students should discuss
a full program in this area with their advisers.

Dual Degree Programs
In its quest to provide alternative educational opportunities for students
wishing to specialize in a variety of areas, the School of Library and
Information Studies has developed a number of specialized programs. In
addition, the Generic Dual Master’s degree program is available for students
who wish to earn dual master’s degrees not specified by the School.
Master of Library and Information Studies (M.L.I.S.)/Master of Education (M.Ed.)

The purpose of this program is to provide a course of study for those individuals wishing to pursue careers in education, such as school library media centers, vocational-technical libraries, junior college media centers, special education centers, correctional facilities, armed forces libraries and educational centers; or in business and industry with emphasis in instructional media.

The dual degrees offered are the Master of Library and Information Studies (MLIS) and the Master of Education (M.Ed.) with emphasis on instructional psychology and technology. Program requirements are structured to provide students with maximum professional education. Admission, retention, advisement, and graduation requirements are administered jointly by both the School of Library and Information Studies and the College of Education. Students wishing more information should contact both academic units. Most of the courses required for the education portion of this degree are offered only at the Norman campus.

Master of Library and Information Studies (M.L.I.S.)/Master of Arts (History of Science)

The School of Library and Information Studies and the Department of History of Science offer a dual degree program for their two fields. Students apply and are accepted by each department. Dual degree students work with a joint advising committee made up of faculty from both units. The requirements for the master’s degree in each department must be met.

CERTIFICATE PROGRAM FOR SCHOOL LIBRARY MEDIA SPECIALIST

The School of Library and Information Studies offers a program leading to completion of the MLIS degree program and the Oklahoma Standard School Library Media Specialist Certificate. A student interested in pursuing the School Library Media Specialist Certificate should plan a program of study with the assigned adviser as soon as possible to coordinate the OU program and preparation for the School Library Media Specialist Certificate. A student interested in pursuing the MLIS program and preparation for the School Library Media Specialist Certificate may require additional coursework beyond the 36 hours required for the MLIS.

Students seeking the masters' degree in Library and Information Studies (MLIS) and the Standard School Library Media Specialist Certificate must:

1. Hold a valid initial standard teaching. The school library media certificate is an advanced certificate that may be added to an initial certificate in early childhood education, elementary education, elementary-secondary education, secondary education, or vocational-technical education, or in another area approved by the state.

2. Fulfill requirements for the MLIS degree.

3. Fulfill requirements for the NCATE-approved school library media program for competencies attained through the following courses or their equivalents:
   - LIS 5003, Information Systems and Networks for Libraries, Archives and Museums
   - LIS 5013, Information Sources and Services
   - LIS 5023, Theory of Library Administration
   - LIS 5033, Foundations of Information Studies
   - LIS 5043, Organization of Information
   - LIS 5083, School Library Media Center Administrations
   - LIS 5103, Design and Implementation of Networked Information Systems, or LIS/EIPT 5533, Introduction to Instructional Technology (Students for whom LIS 5103 or equivalent is waived may choose one elective to support the individual program plan in consultation with the academic adviser.)
   - LIS 5353, Selection of Print/Nonprint Materials for Children/Young Adults/Adults
   - LIS 5363, Books and Materials for Children
   - LIS 5373, Books and Materials for Young Adults
   - LIS 5803, Elements of Research
   - LIS 5990, Instructional Design for Information Literacy

4. Fulfill requirements for the student portfolio required by the Oklahoma Commission on Teacher Preparation.

5. Successfully complete the state teaching examination for the specialized subject area for school library media. After completion of 1-5 above, the University of Oklahoma will recommend the student for standard library media specialist certification by the state.

For individuals already holding a master's degree in education and an initial teaching certificate, requirements for recommendation by the University of Oklahoma for standard school library media certification include: the student portfolio, successful completion of the school library media specialized subject area test, and the following courses:

   - LIS 5013, Information Sources and Services
   - LIS 5043, Organization of Information
   - LIS 5083, School Library Media Center Administration
   - LIS 5533, Selection of Print/Nonprint Materials for Children/Young Adults/Adults
   - LIS 5363, Books and Materials for Children
   - LIS 5373, Books and Materials for Young Adults
   - LIS 5990, Instructional Design for Information Literacy
   - LIS/EIPT 5533, Introduction to Instructional Technology

MASTER OF SCIENCE IN KNOWLEDGE MANAGEMENT

The Master of Science in Knowledge Management (MSKM) degree was created in response to an increasing need for knowledge managers in business, industry, education, government, and public service organizations. The program is designed to provide students with an understanding of not only the contemporary business and technology issues relevant to the firm/industry, but also the ‘people issues’ that are playing an increasingly important role in organizational knowledge creation processes. The course of study is designed to prepare graduates who understand knowledge management concepts, are familiar with knowledge management tools, can facilitate mapping of knowledge assets in organizations, are skilled in the tools and processes of market intelligence, are prepared to effectively exploit intellectual capital, understand the value and roles of competitive analysis, can design and implement knowledge management systems, and are prepared to assume leadership roles in creating knowledge-sharing cultural environments within organizations.

Graduates will acquire the combined capabilities of a business strategist, technology analyst, and a human resource professional. Although courses for this degree will be multi-disciplinary and interdepartmental, the School of Library and Information Studies assumes administrative and operational oversight.

Candidates for the MSKM non-thesis option must fulfill the following:

1. Complete the following seven, three-hour courses:
   - LIS 5033, Foundations of Information Studies
   - LIS 5043, Organization of Information
   - LIS 5103, Design and Implementation of Networked Information Systems
   - LIS 5113, Knowledge Representation
   - ODYN 5113, The Psychology of Leadership
   - LIS 5563, Knowledge Management Design Project
   - LIS 5823, Internship

2. Complete 15 hours of guided electives.

3. Maintain a B grade point average.

4. Complete a minimum of 36 hours of graduate credit.

5. Pass a written comprehensive examination. Requirements for the thesis option are the same, except that no comprehensive examination is taken, and the student must complete and defend a thesis. Six credit hours are allowed for thesis research.

GENERIC DUAL MASTER’S DEGREE

This option allows a graduate student at the University of Oklahoma the option of seeking dual masters’ degrees in any two areas of his/her choosing. In order to pursue the generic dual master's degree, the student must be admitted to both programs before 12 credit hours of program work is completed in either program. Once admitted to both programs, the
student will be admitted into the Generic Dual Master's Degree Program. Further details are available in University bulletins and from the individual departments.

Certificate of Advanced Study

The growth in the number and variety of information resources demands increased specialization on the part of those who use those resources. Practicing librarians and information specialists have attempted to attain this specialization in various ways — on the job training, short courses, workshops — generally through an unsystematic process with obvious costs in terms of effectiveness and efficiency. To respond to technological and other changes in the profession, the School of Library and Information Studies has developed a program of study beyond the master’s degree, one that will lead to Certificate of Advanced Study.

OBJECTIVES

The objectives of the program are: (1) to provide librarians/information specialists with the opportunity to upgrade and update knowledge in library and information studies; (2) to provide librarians/information specialists with an opportunity to redirect or strengthen their present career paths; (3) to develop an awareness of the role, significance, and importance of research in library/information studies and its application in the field; and (4) to provide MLIS students with the opportunity to obtain additional specialized skills and competencies in order to improve their career prospects.

ADMISSION REQUIREMENTS

To be admitted, a student must:
1. hold a master’s degree in Library Information Studies from an institution with a Library and Information Studies degree program accredited by the American Library Association;
2. have completed a minimum of two years of professional experience broadly related to Library Information Studies after completion of the master’s degree.

Applicants who have not completed two years of professional experience after receipt of the master’s degree should petition the Admissions Committee of the School of Library and Information Studies for special permission to enter the Sixth Year Certificate Program. Such a petition must indicate: (a) reasons for waiving this requirement; (b) special training, skills, competencies, or other factors that would contribute to the success of the applicant in the program, and (c) the applicant’s potential for successful completion of the program.

APPLICATION PROCEDURES

Prospective students must submit an application for admission to the University and transcripts of academic performance to the Office of Admissions and Records.

Applicants must send an application for admission to the School of Library and Information Studies and three letters of reference directly to the School. The letters should be sent only in those instances where there are no references on file, or existing letters of reference are three or more years old.

Graduate Record Examination scores are not required.

PROGRAM COMPONENTS

Thirty hours of coursework beyond that taken as part of a master’s degree in Library Information Studies are required for the certificate. Credit hours for completion for the Sixth Year Certificate requirements may include post-master’s coursework, regularly offered master’s level coursework, and graduate courses offered in other departments of the University.

In order to ensure a unified program of study tailored to meet the individual needs and interests of the student, the Director of the School will appoint a committee of three, consisting of a chair and two faculty members who will work closely with the student and develop a written program of studies for the 30 credit hours.

Prior to enrollment in the program, the tentative program of studies must be approved by the Director of the School. Students may take up to nine credit hours outside the School of Library and Information Studies.

RETENTION STANDARDS

The student enrolled in any program of the School of Library and Information Studies must maintain acceptable academic standards in order to remain in the school. Students admitted to full graduate standing in the school must maintain an overall B average in all courses attempted. If at the end of any semester a student’s cumulative grade point average has fallen below 3.00, the student will be placed on academic probation for the next semester (or summer session) in which the student enrolls. If the student fails to raise the total cumulative grade point average to 3.00 in the next 12 hours in which the student enrolls, the student will be dropped from the school.

When students who have been conditionally admitted have completed the first 12 hours in their program, they must have achieved a grade point average of 3.00 or better for all graduate-level courses attempted or they will be denied re-enrollment. Further, they must have met the conditions set out in their letter of conditional admission, including successful completion of designated courses.

Graduate College regulations require a grade average not lower than B on all graduate work attempted for eligibility for any graduate degree. The School of Library and Information Studies requires that a student receiving more than six credit hours of C or lower in letter-graded courses in Library and Information Studies be dropped from the School’s rolls. This requirement will be observed regardless of a student’s overall grade point average. Additionally, any student who has been admitted to the MLIS program receiving a grade of D or lower in any letter-graded LIS graduate course will be withdrawn from the program.

A student who has received two or more I (incomplete) grades that have not been changed to passing grades normally will not be permitted to enroll for another semester’s work.

Certain courses in the School of Library and Information Studies may be graded on a S/U (Satisfactory/Unsatisfactory) basis. A grade of S is equivalent to a grade of B or better. Students may not enroll in more than 12 hours of Satisfactory/Unsatisfactory graded courses as credit toward completion of degree requirements.

Student records are evaluated at the end of each semester. The director will notify any student whose academic performance is less than satisfactory by letter.
Department of Mathematics

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Faculty Roster
Professors Albert, Apanasov, Basmajian, Breen, Cline, Dickey, Goodey, Grasse, Gutman, Landes, Lee, Magid, McCullough, McKnight, Miller, Ozaydin, Przebinda, Rubin, Walschap, Wei, White; Associate Professors Akin, Brady, Murphy, Ray; Assistant Professors Lifschitz, Roche, Shankar, Zhu.

Degrees Offered
• Bachelor of Arts
• Bachelor of Science
• Bachelor of Science in Mathematics
• Joint Bachelor of Science in Mathematics and Master of Science in Biostatistics
• Master of Arts
• Master of Science
• Master of Science/Master of Business Administration
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

Undergraduate Study

The department encourages self-study and the taking of advanced mathematics courses in high school. Credit for this activity may be earned through a variety of examinations, including those given by the College Entrance Examination Board (advanced placement), the department (advanced standing), and CLEP (College-Level Examination Program). Advanced standing tests are administered through the Independent Study Department. Transfer students are urged to consult either the department office or undergraduate mathematics adviser if doubt exists concerning proper placement.

Students majoring in mathematics, the physical sciences, or engineering should take the calculus sequence 1823, 2423, 2433, and 2443. The sequence 1743–2123, is designed for students in business and the life or social sciences.

Courses numbered below 1823 do not carry major credit. Neither do the courses 2213, 3213, 4222. Only students in the teacher certification program may earn major credit for 4222, 4232.

The department strongly recommends a grade of C or better in all prerequisite mathematics courses.

MAJOR PROGRAMS

The student whose major interest is in mathematics may work either for the standard degree of Bachelor of Arts or the professional degree of Bachelor of Science.

For a well-rounded program in mathematics, majors should purposely seek out a variety of fields before specializing, even though this may result in more credit hours than are actually required for a major.

All major programs must include 12 hours of elementary calculus (1823, 2423, 2433, and 2443). Majors are strongly urged to take 2513 and 3333 before completing the calculus sequence.

The additional requirements for specific programs follow (unless otherwise indicated, all course numbers indicate mathematics courses).

STANDARD (1701A)
The standard degree program (code 1701A) leading to the Bachelor of Arts general option requires:
• one course outside the Department of Mathematics of at least three hours credit and having 1823 as a prerequisite.
• 2513, 3333;
• 3113 or 3413;
• nine additional hours at the 3000-level or higher including six hours at the 4000-level or higher (excluding 3213 and 4232);
• 4513.

Grades of C or better must be earned in all mathematics courses at the 3000-level or higher.

PROFESSIONAL (1701K)
The professional degree program (code 1701K) leading to the Bachelor of Science in Mathematics requires:
• 2513, 3333, 4323, 4373, 4433, 4853;
• 3113 or 3413;
• three hours from 4333 or 4443;
• 4513.

Grades of C or better must be earned in all mathematics courses at the 3000-level or higher.

MATHEMATICS B.A./BIOSTATISTICS M.S.
The dual B.S./M.S. degree in Mathematics and Biostatistics (code 1701J) requires the following mathematics courses:

B.S. Component
• 2513, 3333, 4073;
• 3113 or 3413;
• three hours from 4323, 4383, or 4433;
• three hours from 4733 or BSE 5703;
• three hours from 4743 or BSE 5733;
• six hours from 4083, 4113, 4193, 4323, 4333, 4373, 4433, 4443, 4853, 4793 or BSE 6663, 4773 or BSE 6643, 5783 or BSE 5653 (with approval of adviser).

B.S./M.S. Component
• BSE 5001, BSE 5113, BSE 5163, BSE 5173, BSE 5193, BSE 5980 (also satisfies senior capstone requirement);
• three hours from HAP 5113, HPS 6213, OEH 5013;
• six hours of math from 4083, 4113, 4193, 4323, 4333, 4373, 4433, 4443, 4853, 5703 or BSE 6663, 5773 or BSE 6643, 5783 or BSE 5653. These six hours may not duplicate the six hours of electives for the undergraduate major requirements and when offered as slashlisted courses must be taken at the graduate level.

M.S. Component
• three hours from BSE 5303, BSE 5363, or BSE 6363;
• six hours of math or biostatistics chosen in consultation with adviser from MATH 5783 or BSE 5653, BSE 5663, BSE 6643, MATH 5793 or BSE 6663;
• BSE elective chosen from any BSE course (excluding 5103, 5950, and 6950) that has not been taken to fulfill other requirements.

Additional Major Support Requirements
• Biological science chosen from ZOO 1114 or 2404;
• Physical science chosen from CHEM 1315 or 1425; PHYS 2414 or 2514. At least one of the biological or physical science courses must have a laboratory component.

Additional Requirements
• ZOO 2124 or 2815.
No more than eight hours toward the dual degree program may carry a grade lower than a B. No course at the 4000-level or higher with a grade of C may apply toward the program.

TEACHER CERTIFICATION

The student planning to teach mathematics in the secondary school should follow the mathematics teacher certification program. He or she may receive either the standard or professional degree. However, the courses 2513, 3613, 4643 and 4753 must be taken. Further requirements are discussed in this catalog under Teaching Certificates.

Mathematics majors who are candidates for degrees with honors must satisfy all of the requirements for a professional degree. For other requirements students should consult the director of the Honors Program.

MINOR

The requirements for the minor in mathematics are: 15 hours of courses acceptable for major credit, including 2443 and nine upper-division hours including six hours numbered 4000 or above. Three hours of either 3960 or 3970 (not both) may be substituted for three hours at the 4000-level or higher.

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**Graduate Study**

**Master’s Programs**

In order to meet a variety of needs, the department has established several masters’ programs. The traditional Master of Arts degree (Option I) is particularly suitable for students who may want to pursue a doctorate or who are interested in teaching at the college level. The Master of Science degree emphasizes applications of mathematics. The dual degree program addresses the increasing need of mathematics in business and management.

**MASTER OF ARTS DEGREE**

For admission to this program with full standing, a student should have completed the mathematics courses required for a bachelor’s degree with a major in mathematics at the University of Oklahoma or their equivalents. Students lacking this preparation must acquire it, either by taking the courses or advanced standing examinations. The course requirements are:

1. Twelve hours of elementary calculus equivalent to Math 1823, 2423, 2433, and 2443.
2. Math 2513, 3333, 4323, 4433.
3. Two courses from: 3413 (or 3113), 3613, 3693, 4073, 4163, 4333, 4373, 4443, 4733 (or 4753), 4743 (or 4753), 5243 (or 4103), 5653, 5853, 5863.

For the M.A. degree the student must present a minimum of 32 hours at the 4000-level or above.

The general requirements of the Graduate College must be satisfied as well as the following departmental requirements:

a. At least 15 hours from 5353-5363, 5453-5463, 5853-5863.

b. If only 15 hours are taken from (a), then another six hour sequence of 5000 or 6000 numbered courses must be taken.

c. Pass comprehensive examinations over three sequences listed in (a) or (b), two of which must be chosen from sequences in (a). Master’s candidates who plan to seek a Ph.D. at the University of Oklahoma should take the qualifying examination to satisfy this requirement.

The qualifying examination consists of comprehensive examinations over all three sequences in (a).

Both thesis and nonthesis programs are available for the master’s degree.

**MASTER OF SCIENCE DEGREE**

For entry to this program, a student is expected to have knowledge of a computer language, and one course in each of the areas of differential equations, linear algebra, modern algebra, advanced calculus, and probability/statistics. If the student is deficient in these prerequisites, up to three hours of work taken in residence to satisfy the requirements may be included in the graduate program with the approval of the graduate liaison.

Each student shall obtain approval for his or her program of study from the Applied Math Committee. This committee, with the graduate liaison as an ex-officio member, will ensure that the program of study, including a thesis, if any, will provide a coherent education in applied mathematics appropriate for a master’s degree, and that it will meet the formal requirements of the department. Course requirements are as follows:

1. One three-hour course in each of the areas of statistics and numerical analysis/computer science.
2. Two three-hour courses in abstract mathematics.
4. Two courses besides those used in (1) in some area of applied mathematics.
5. At least two courses, taken at the 4000 level or higher from outside the mathematics department, which use mathematics beyond elementary calculus. A maximum of nine hours of coursework outside of mathematics can be applied to the degree.
6. No more than nine hours of coursework in mathematics below the 5000 level, and at most 12 hours of 4000-level coursework in total. No courses below 4000 level can be applied to the degree.
7. A total of 32 hours, of which 12 hours must be at the 5000 level or higher in the mathematics department. A thesis is not required, but is an option for a maximum of two hours credit.

Each student will pass a comprehensive examination over material to be determined by the student’s committee.

**M.S. OPTION FOR MATHEMATICS TEACHERS**

This program differs from the above M.S. degree in the following ways:

1. The entering student should be a certified or prospective teacher of secondary mathematics.
2. Up to six hours of work taken in residence, which is needed to make up any deficiencies the student may have, may be included in the student’s graduate program.
3. Course requirement (5) for the M.S. degree is replaced by the following requirement: the student’s program will include at least three hours of directed reading/independent study in mathematics education (a maximum of nine hours in education may be counted in the degree program).

**DUAL MASTER OF BUSINESS ADMINISTRATION/MASTER OF SCIENCE DEGREES**

The Master of Business Administration/Master of Science degree in mathematics program is available for those students who wish advanced training in both fields of study. The combined degree program consists of fewer hours than the total number normally required for the two degrees taken separately. See graduate section of this catalog for a description of this dual degree option.

**Doctoral Programs**

**DOCTOR OF PHILOSOPHY**

In order to be admitted to the Ph.D. program in mathematics, a student should first have completed a master’s degree or equivalent. A total of at least 90 hours of graduate-level work is required for this degree, of which two hours may be master’s (5960) or special problems (5990). A student who desires to study for the doctorate must pass a qualifying examination. A syllabus of the material covered by the examination is available in the departmental office. The examination may be repeated only once. This examination covers the first-year graduate sequences in algebra, analysis, and topology. An incoming graduate student with a master’s degree is required to take the qualifying examination not later than the second semester in residence. After the qualifying examination and after an agreement has been reached with a thesis adviser, the student then requests an advisory conference to determine a program in the area of interest.
The 90-hour program for the degree must include the following sequences of mathematics courses numbered above 5000:
1. A sequence of 12 hours (including seminars) in one of the major areas of mathematics;
2. Sequences of six hours in each of three other areas;
3. A thesis representing an original contribution to mathematical knowledge.

The candidate chooses the sequences in consultation with his/her Advisory Committee, which is responsible for determining the scope and character of the program of study.

The student will normally participate in seminars and colloquia in addition to the coursework.

Reading proficiency in two foreign languages is required.

**Ph.D. — Option in Undergraduate Mathematics Curriculum and Pedagogy Research**

A student who desires to study for this option of the mathematics doctorate must pass the qualifying review at a level appropriate for this option as determined by the Graduate Committee in consideration of the student's record and qualifying examination performance.

A total of at least 90 hours of graduate-level work is required for this degree. The program must include the following:

1. An approved combination of 15 hours of reading, seminar and other mathematics courses numbered above 5000 in research in mathematics curriculum and pedagogy.
2. Approved sequences of six hours of courses numbered 5000 or above in each of two areas of mathematics, excluding courses used for the master’s degree.
3. An approved combination of no less than 18 hours of relevant courses above the 5000-level inside or outside the department to provide the necessary tools for research in undergraduate mathematics curriculum and pedagogy.
4. A thesis representing an original contribution to research in undergraduate mathematics curriculum and pedagogy. The program will include at most 15 hours of MATH 6980, Dissertation Research.

Support

Extensive support is available for students enrolled in a graduate program in Mathematics. The department has a limited number of fellowships available; all students are automatically considered for these fellowships.

Although both teaching and research assistantships are available, incoming students are generally considered only for graduate teaching assistant appointments.

Application materials are available from the Director of Graduate Studies, Department of Mathematics, University of Oklahoma. Applications for support are accepted at any time; however, the majority of offers are extended from March to July of each year. Students desiring support in the fall terms should have completed applications sent to the Department of Mathematics by June 1st (March 1st for students applying outside the USA).

A student for who English is not a native language must submit the TSE to be considered for a teaching appointment.
The University of Oklahoma 2003-2006 General Catalog

Department of Modern Languages, Literatures, and Linguistics

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Faculty Roster


Degrees Offered

• Bachelor of Arts
• Master of Arts
• Master of Arts/Master of Business Administration
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Please refer to the Graduate College section of this catalog for general information on graduate programs.

General Information

The main goal of the department is to enable students to speak, understand, read and write a foreign language. The department also strives to impart to the students an understanding of the cultures or customs in which that language is spoken, its history, and its present situation. In the literature courses, more than improved reading skills are sought; studying the literature of a foreign language brings together all of the skills the students have learned, opens to discussion a wide variety of topics, and provides a great source of knowledge. The department does not deal solely with the matter of preparing students for certain careers; the faculty believes in providing a more complete education and better understanding of life for every individual. Faculty advisers are available in each language to provide educational guidance according to students’ interests and goals.

Programs for Academic Excellence

Students are encouraged to study abroad as an enhancement to their degree programs. The department organizes a summer program in Puebla, Mexico. Summer or semester and year-long exchange programs in South America, Europe, Asia, and Africa are available to all students.

Special Facilities

The Modern Languages Learning Center is a state-of-the-art computer facility that provides students a wealth of resources for studying and learning modern languages. The Learning Center boasts a large library of digitized listening files, Web activities, language-learning software, and video/DVD materials. Listening materials and Web activities are available to students in the Learning Center and via the remote connection to the Internet.

Careers

The study of languages and literatures combines preparation for a career with a more sophisticated understanding of the world. Students who develop an awareness of languages and literatures are able not only to understand the world better but also to contribute more to society. Although teaching languages and literatures is a popular and satisfying career option, some language majors serve their country in the Diplomatic Corps, while others enter the private sector and a wide variety of business fields.

Scholarships and Financial Aid

Graduate assistantships are available throughout the department. All graduate assistants are required to enroll in ML&L 4813 during their first semester. In addition, graduate assistants are required to enroll in a minimum of six credit hours of graduate-level courses per semester. For information on scholarships, students should contact the department.

Undergraduate Study

BACHELOR OF ARTS DEGREE

The department offers the Bachelor of Arts degree with majors in French, German, Russian, Spanish and Linguistics. Beginning language courses do not count toward the major. In the second year, students focus on improving the basic skills of speaking, understanding, reading, and writing while gaining some exposure to the culture and the literature of the language. In the third year generally focuses on improving conversation skills and pronunciation, acquiring a stronger understanding of the grammatical rules of the language, and reading a limited number of complete literary works. In the senior year, majors study civilization and literature from its origins to the modern era.

COURSE PLACEMENT

Students who have completed two or more years of high school foreign language and who wish to continue their foreign language study at the University will be placed in appropriate courses based on their scores in the placement exam. University credit may not be earned in courses for which the exit proficiency level is below the students’ placement test scores. Students may, if they wish, audit such courses. (Students who have not completed the normal two-year high school language sequence should enroll in 1115. Those who wish to demonstrate higher proficiency should consult the placement adviser of the Department of Modern Languages, Literatures and Linguistics). Students have the right to appeal their course placement.

Placement examinations are administered during pre-enrollment periods as well as during regular enrollment periods. The examination is also given during the pre-enrollment period in the summer for new students planning to enroll in the University in the fall. Students should check with the Department of Modern Languages, Literatures, and Linguistics concerning the specific place and dates on which such examinations will be given.

NATIVE SPEAKER POLICY

For departmental purposes, the Department of Modern Languages, Literatures, and Linguistics defines a native speaker of a language as any individual who has been raised in a family and a society where this language is habitually used for everyday communication and is the language of instruction in the student’s school system.

To satisfy the General Education language requirement, native speakers must obtain a waiver of language requirement form from the Department of Modern Languages, Literatures, and Linguistics and take an appropriate test.
A native speaker may not enroll in any undergraduate skills course in his or her native language, with the single exception of the course in Advanced Composition 3423, but may earn credit by advanced standing exams. Undergraduate skills courses include all courses in which the primary goal is language usage, i.e., all elementary and intermediate courses, and all composition, conversation and phonetics courses. However, this does not preclude native speakers from earning credit by advanced standing exams.

If a student seeks a teaching certificate with a major in his or her native language, the student must complete the advanced composition course, as well as all literature and civilization courses or equivalent required for the major. If additional hours are needed in order to meet the 35 hour certification requirement for a language major, the student may apply for retroactive credit for as many hours of skills courses as are needed to meet that requirement, provided that a grade of B or higher was earned in Advanced Composition. Such hours are entered on the student’s transcript, but under no circumstances may they count toward any MLLL degree program at the University of Oklahoma.

**Major Requirements**

**MODERN LANGUAGES**

An elementary knowledge of another modern or classical language is required of French, German, and Spanish majors. Russian majors must fulfill the requirement with a modern language. In addition, Russian and German majors have the option to substitute three MLLL courses on any level for the second language requirement. For Russian, the MLLL courses are in addition to MLLL courses required for the major.

The following courses in French, German, Russian and Spanish may not be counted as major work: 1013 and 1023; 1115 and 1225; German 2523; and all LING prefix courses.

**French**

The following courses are required for major students: 2113, 2133, 2223, 2243, 3083, 3423, 3853, 4153, 4163, 4313, 4323, 4993; one course in French taken at the 3000-level or above, to be approved by advisor; and a course in modern European history.

**German**

All major students are required to take 2113, 2133, 2223, 2243, 3083, 3423, 3853, 4153, 4163, 4313, 4323, 4993; one of the following: 3523, 3623 or 3723; plus three courses at the 4000/5000 level to be selected by the student; and a course in modern European history.

**Russian**

All major students are required to take the following courses: 2113, 2223, 3323, 3073, 3423, 3523, 3533, 4173, 4183, 4613. Students must also take two additional courses in Russian literature or culture: MLLL 3123, 3133, 3143, or another appropriate course with approval of the Russian adviser.

Major support requirements: three hours of History 2803, 3770, 3793, 3803, 3813, or any equivalent approved by the Russian adviser.

**Spanish**

All major students are required to take the following courses: 2113, 2223, 3073, 3423, 3853, 4093, 4103, 4153, 4163, 4183, 4313, 4323; and a course in the history of Spanish America or Spain.

Students majoring in a modern foreign language also may work toward a standard second-year teaching certificate in foreign language. Information concerning teaching certificate programs will be found in this catalog under the College of Education.

**Linguistics**

All students must complete 36 hours in the major. The following courses are required: LING 2303, 3033, 3053, 3353, 4983, PHIL 1113, 4133, and either LING 4313 or ENGL 4133. Additionally, students must choose four courses from the following: LING 3043, 4333, 4053, 4363, 4550, ANTH 3063, PHIL 4533, 4543, 5143.

In addition, students must demonstrate significant experience in foreign language study, according to the following criteria:

For students who are native English speakers, the foreign language support requirement may be met either by obtaining a major or minor in a foreign language; or by two years of college instruction in one foreign language plus one year of college instruction in a second foreign language. For students who are native speakers of a language other than English and for whom English is a foreign language, the requirement will be met by proficiency in the native language as demonstrated by testing out at the third-year level (equivalent to the minor) with guidance by the departmental advisor; or satisfaction of the College of Arts and Sciences foreign language requirement in a language other than the native language.

**Minor Requirements**

Students majoring in other subjects may elect to minor in one of the modern languages listed below or in linguistics. The requirements are:

- **Arabic**: 1115, 1225, 2113, 2223, 3113, 3223, MLLL 3413.
- **Chinese**: 1115, 1225, 2113, 2223, 3113, 3223, MLLL 3753.
- **French**: 2113, 2223, 2443, 3423 and six hours from 3083, 3853, 4153, 4163, 4313, 4323.
- **German**: 2113, 2223, 2323 or 2123, 3423 and six hours at the 3000- or 4000-level.
- **Italian**: 1103, 1203, 2113, 2223, 3123, 3223, 3323.
- **Japanese**: 1115, 1225, 2113, 2223, 3113, 3223, plus three hours from MLLL 3213, 3223, 3633, 3643.
- **Portuguese**: 1115, 1225, 2113, 2223, 3113, 3223, MLLL 4113.
- **Russian**: 2113, 2223, 3323, 3423; and three hours from 3073, 4173, 4183, MLLL 3123, 3523, 3533.
- **Spanish**: 2113, 2223, 3073, 3423, plus six hours chosen from 3623, 3723, 3853, 3890, 3990, or any 4000-level Spanish course.
- **Linguistics**: LING 2303 and 3033, plus three courses from the following, for which the student has met the prerequisites: LING 3043, 3053, 3353, 4053, 4313, 4333, 4363, 4550, ENGL 4133, ANTH 3063, PHIL 4533, 4543.

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**Graduate Study**

**ADMISSION**

The application for admission to the graduate program must be submitted to the Graduate College, along with transcripts and other required documents. The Graduate Dean reaches a decision based on the recommendation of the department.

Requirements for admission to full graduate standing in the department are as follows:

1. A bachelor’s degree (or equivalent) in French, German or Spanish or equivalent hours in the major.
2. A 3.00 grade point average in the last 60 hours of undergraduate coursework.
3. Three letters of recommendation.
4. A narrative statement of intent in the language concerned, in which are described the applicant’s accomplishments and plans for the future.

Applicants with a bachelor’s degree in another field and a 3.00 grade point average may be admitted to the graduate program in the field they chose, provided they fulfill the undergraduate requirements for a B.A. in that field after enrollment. Applicants who hold a B.A. in French, German or Spanish but do not have the requisite 3.00 grade point average may be admitted on probation for one semester, provided they have at least a 2.75 grade point average.

A placement examination is mandatory for all students seeking admission to the graduate program.

Applicants who have not fulfilled the following undergraduate requirements must do so in the course of their graduate program:
1. Two semesters or ten hours of another modern or classical language, or students may demonstrate reading competency by taking a departmental graduate reading exam.

2. One college-level course in European history (or Spanish or Latin American history for Spanish).

**Master of Arts Degree**

M.A. degrees in French, German, and Spanish are offered in both a thesis and a non-thesis program.

**NON-THESIS** — Students in the non-thesis program must complete 32 hours of acceptable graduate-level coursework (including the courses specifically required) and receive a passing grade on the final comprehensive examination.

**THESIS** — Requirements for the thesis in Spanish are 26 hours of acceptable graduate-level coursework, a thesis for which a maximum of four (4) credit hours is granted, and a final comprehensive examination. Requirements for the thesis in French and German are 24 hours of acceptable graduate-level coursework, a thesis for which a maximum of six (6) credit hours is granted, and a final comprehensive examination.

**COMPREHENSIVE EXAMINATION**

Students enrolled in the thesis and non-thesis programs take the same M.A. comprehensive examination. Students are urged to take the examination in the fourth semester of graduate study.

The comprehensive examination is a written examination which is scheduled for the 12th and 13th week in each semester. It is based on courses taken by the student and books on the reading list. The entire major field is covered; work in the minor field is excluded.

Students who fail the examination in whole or in part may repeat it (or the failed portion) only once during the regularly scheduled period.

The department notifies candidates and the Graduate College of the examination results. Candidates for the non-thesis degree who have completed all course requirements and the comprehensive examination file the report of the final examination with the Graduate College.

Students are responsible for complying with Graduate College regulations concerning applications for graduation and payment of fees. When all procedures have been completed, the student’s name is placed on the graduation list for the next commencement and the degree is awarded as of that date.

**MASTER OF ARTS/MASTER OF BUSINESS ADMINISTRATION**

The Department of Modern Languages, Literatures, and Linguistics and the College of Business Administration offer a course of study leading to both the Master of Business Administration and the Master of Arts degree with a major in either French, German or Spanish.

The increasing internationalization of business is creating a need for managers and executives with a sensitivity to cultural factors and working knowledge of a second language. The M.B.A./M.A. with a major in French, German, or Spanish will graduate students who can function effectively in the international business environment. The M.B.A./M.A. degree in French, German or Spanish is designed to allow students to pursue a combined degree program consisting of fewer hours than the total number normally required for the two degrees taken separately.

The program is structured so as to be accessible to individuals with backgrounds in French, German or Spanish. Those without proficiency in the relevant language would be expected to enroll in preparatory study. The program of study would be identical to pursuing the programs separately except nine credit hours of each program would also be counted toward the other program’s requirements. The dual program varies in length between 57 and 68 graduate credit hours. Students must be accepted by both units for this dual degree program, but this does not preclude students already in one degree program from applying to the other at a later date. Students dropping out of one of the degree programs may continue to pursue the degree in the remaining program. Students must complete the requirements for the dual program in the same academic session. Students completing the dual program will be awarded the M.B.A. and the M.A. in the same academic session.

Admission, retention, and degree requirements are maintained by the separate academic units. Individuals interested in the M.B.A./M.A. degree in French, German or Spanish should contact both academic units. Admission recommendations are made by both academic units separately based on the admission requirements of the respective units.

**Doctor of Philosophy**

Doctoral degrees with the following emphases are offered:

1. Romance language, consisting of a French major and Spanish minor or a Spanish major and French minor.
2. French, with a minor in a related field in the humanities or in education.
3. Spanish, with a minor in a related field in the humanities or in education.

**NOTE:** Only graduate-level courses (4000-/5000-level) are applicable toward the major and the minor.

The total number of hours required for the Ph.D. is 90 hours beyond the bachelor’s degree, including credit earned for the M.A., if applicable to the Ph.D. program. The Romance language emphasis requires 45 hours of coursework in the major field and 25 hours in the minor field. One course in the history of romance languages is required. The Ph.D. degrees in French and Spanish require 61 hours of coursework in the major and 9 hours in the minor.

Prerequisites for the Ph.D. degree in French and Spanish include the following:

1. Master’s degree in the relevant literature or equivalent.
2. Three letters of recommendation.
3. 3.50 (on a 4.00 scale) on all graduate coursework presented on accompanying transcripts.
4. Students must demonstrate reading competency in a second language. In order to do so, they may take the departmental graduate reading exam or complete four semesters in another language.
5. Application must be completed by April 1 for consideration for admission in the fall semester, and by October 1 for the spring semester.

6. The application must include a narrative statement of intent written in the target language. It must describe the applicant’s accomplishments and plans for the future.

7. All students will be required to take a placement examination before enrolling in graduate-level courses.

In addition, the Romance language emphasis requires 10 hours of Latin as a prerequisite.

Ph.D. students entering the program are encouraged to show evidence of residence in a French- or Spanish-speaking country. A reading knowledge of a second language, for which an examination is administered by the department, is required for the Ph.D. degree in French or Spanish.

**Ph.D. GENERAL EXAMINATION**

The Ph.D. general examination is normally given during the twelfth week of the semester as follows:

1. Examination in the area of specialization within the major: three (3) hours;
2. All other examinations in the major and minor fields: two (2) hours each. The examination in a minor field outside the department may take place during the regularly scheduled oral examination.

The oral examination is scheduled within two weeks after the last written examination. Students are required to present a prospectus of their dissertation at the oral examination (see dissertation below). No Ph.D. examinations, whether written or oral, may be scheduled during University finals week.

The general examination covers the entire major field and courses taken for the minor field. The Ph.D. committee is responsible for preparing the examination questions or for asking other graduate faculty to prepare
questions in their specific area of specialization. The Ph.D. committee grades all portions of the examination.

In the case of inadequate results of the examination, two minor areas of the examination may be retaken. Failure in the area of specialization within the major and/or in more than two minor areas requires the retaking of the entire examination.

Upon successful completion of the Ph.D. general examination, students who do not hold an M.A. degree in their major field may be awarded one by making application and paying the required fees.

**Ph.D. DISSERTATION**

Students in the Ph.D. program are urged to choose a topic for their dissertation as early as possible. A dissertation prospectus (five pages minimum plus selected bibliography) is required at the time of the oral examination.

Candidates conducting research or writing their dissertations enroll in dissertation hours (French or Spanish 6980). Following the initial enrollment, a student must maintain continuous enrollment during each regular semester (summers excepted) at least two (2) hours of 6980 until the degree is completed or the candidacy discontinued. Exceptions will be made for military service. However, enrollment in 6980 is mandatory in any semester or summer session during which the student is actually doing dissertation work regardless of other hours of enrollment.

Candidates must comply with graduate college regulations in applying for graduation and payment of fees. When all requirements have been fulfilled and all University procedures completed, the candidate’s name is placed on the list for the following commencement, and the degree is awarded as of that date.

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**Native American Studies**

Clara Sue Kidwell, Director
Barbara Hobson, Assistant Director
Jerry Bread, Outreach Coordinator
Ellison Hall, Room 216
Norman, OK 73019-3119
Phone: (405) 325-2312
FAX: (405) 325-0842
Internet: [http://www.ou.edu/cas/nas/](http://www.ou.edu/cas/nas/)

**Degrees Offered**

- Bachelor of Arts
- Master of Arts

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**Undergraduate Study**

**Bachelor of Arts**

The Native American Studies Program at the University of Oklahoma is designed to provide students with basic skills in reading, writing, and analytical thinking and an understanding of cultural diversity through comparison of Native American and other cultural values and issues. The curriculum gives students a basic understanding of American history and the role that Native Americans have played in it; an understanding of contemporary social and political issues that affect Native American communities; an appreciation of the importance of art, music, and dance in Native American life; training with community-based programs that will prepare graduates to assume positions in government, education, social services, and tribal programs; and learning skills that will enable graduates to enter academic or professional programs at the graduate level.

The major is an interdisciplinary degree offered in the College of Arts and Sciences. Students will take a core of courses offered by NAS faculty and select from courses in several departments, including anthropology, English, history, music, fine arts, communications, and geography. Students will also have the opportunity to take one of a number of native languages that the University offers.

The major requires a minimum of 36 hours, including 21 at the upper-division level. The course requirements are as follows:

**Core Requirements (24 hours)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2613</td>
<td>Native Peoples of North America</td>
</tr>
<tr>
<td>ENGL 2733</td>
<td>American Indian Literature: Early and Traditional; or 2743,</td>
</tr>
<tr>
<td></td>
<td>American Indian Literature: Modern and Contemporary</td>
</tr>
<tr>
<td>HIST 3633</td>
<td>The American Indian to 1870, or 3643, The American Indian:</td>
</tr>
<tr>
<td></td>
<td>1870–present</td>
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</tbody>
</table>

**One course from the following:**

- MUNM 3213, Native American Music; A HI 4803, Prehistoric American Indian Art History; A HI 4813, American Indian Art History 1842–1892; A HI 4823, 20th Century American Indian Art History; ARTC/NAS 4693, Native American Artists; ARTC/NAS 4893, Contemporary Native American Artists II; NAS 3333, Native American Film.
- NAS 3863, Native American Research Methods
- NAS 4013, Senior Capstone
- NAS 4803, Native American Sovereignty
- NAS 4913, American Indian Education Policy, or NAS 4933, Intro to Tribal Economic Development
- NAS 4920, Internship (3 hours)

In addition, 12 semester hours not used toward the major core area must be completed from the following list for major support:

- A HI 3803, 4803, 4813, 4823; ARTC/NAS 4693; MUNM 3213.
- ENGL 3253, 3353, 4343.
- ANTH 1613, 3453, 3503, 3893, 4653, 4663, 4673, 4693, 4703, 4813, 4823, 4873; COMM 2313; GEOG 4563; HIST 1543, 3430, 3703; NAS 3113, 3693.

Majors must meet the College of Arts and Sciences language requirement by studying a native language. The language courses are crosslisted as ANTH 1713, 1723, and 2733 or as NAS 1713, 1723, and 2733.

Departmental 4990 courses will apply as approved by the director of the degree program. A maximum of six of these hours will apply. Open topics courses such as Communication 3810, NAS 3693, and History 3430 will be limited to six hours.

**MINOR**

The undergraduate Native American Studies minor requires a minimum of 15 hours of courses acceptable for major credit, including nine upper-division hours. The following specific requirements must be met; one course from each of the following four groups:

1. **ENGL** 2733, 2743, 3013, 4343.
2. **ANTH** 2613; **HIST** 1543, 3633, 3643.
3. **NAS** 4803, 4913, 4933; **ANTH** 3453.
4. A HI 4803, 4813, 4823, 4833; MUNM 3213; ARTC/NAS 4693.

Students will select one additional course from the following: ANTH 1613; 3503, 4653, 4663, 4673, 4693, 4813; A HI 3803; COMM 2313; ENGL 3253; 3353, 4343; GEOG 4563; NAS 3113; 4913; 4933.

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**Graduate Study**

**Master of Arts**

The master’s degree in Native American Studies is designed to allow students to expand their knowledge of American Indian cultures and strengthen their skills in writing, critical analysis of arguments and problem solving. The curriculum focuses on the study of American Indian culture, history, arts and contemporary policy issues. By bringing several disciplinary approaches to bear on a particular group of people, it allows students to deal with multiple perspectives on issues such as tribal identity, aesthetics, cross-cultural communication and conflict, and formation of federal policy.
The program has the flexibility to meet the needs of graduating seniors who wish to pursue graduate work leading toward doctoral study and careers in college teaching, employees of American Indian tribes and government agencies who want to further their careers, K-12 teachers who need graduate work to maintain certification, and individuals who are simply seeking to increase their knowledge of and skills in interpreting American Indian cultures and concerns.

The master of arts degree in Native American Studies requires a minimum of 30 hours of coursework, including seminars in history, English, anthropology, art criticism, and ethnomusicology; two courses chosen in consultation with the student's graduate adviser, which may be regularly scheduled seminars or directed readings; a one-hour seminar on thesis writing; and research for the thesis.

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**Department of Philosophy**

Hugh Benson, Chair  
Linda Zagzebski, Graduate Liaison  
Zev Trachtenberg, Undergraduate Liaison  
Dale Hall Tower, Room 605  
Norman, OK 73019-2006  
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**Faculty Roster**

Professors Benson, Cook, Elugardo, Merrill, Morton, Sankowski, Swoyer, Zagzebski; Associate Professors Badhwar, Hawthorne, Riggs, Trachtenberg; Assistant Professors Ellis.

**Degrees Offered**

- Bachelor of Arts  
- Master of Arts  
- Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. For additional information on graduate programs, individual documents detailing each graduate program are available from the Graduate College and their website at [http://gradweb.ou.edu/](http://gradweb.ou.edu/). This information is updated yearly and should be referred to for requirements of each graduate program.

**General Information**

The department offers broad training in the major fields of philosophy, with particular strengths in ethics, the history of ancient and modern philosophy, logic, metaphysics, epistemology, philosophy of religion, philosophy of language, philosophy of mind, and political philosophy. A low graduate student/faculty ratio ensures individual attention for all graduate students. In addition to a wide range of courses, the department provides a rich and lively philosophical environment, with a good deal of informal interaction between faculty and students supplementing coursework and related activities. Additional information can be found on the department home page (address listed above).

**Programs for Academic Excellence**

Kingfisher College, Kingfisher, Oklahoma, discontinued giving instruction in 1927. An agreement with the trustees of the college provided for transferring a part of the library of the college to the University, for administering the Kingfisher College records for each graduate of Kingfisher College, recognizing the merits of the degree held by each, and inviting the holder to become associated with the alumni of the University.

In 1951 the trustees of the college and the regents of the University jointly established a chair in the Department of Philosophy named Kingfisher College Professor of Philosophy of Religion and Ethics. Since its origin this chair has been expanded into an operative section of the Department of Philosophy.

The basic purpose of studies in philosophy of religion and ethics is to give responsible instruction and orientation to undergraduates in the area of moral and spiritual values, and to clarify the relation of religion to other areas of human experience, especially science. To accomplish this end, undergraduate courses in ethics, philosophy of religion and philosophy of science are offered. However, the Kingfisher College program also has the important, though not central, role of fostering graduate study (on both the M.A. and Ph.D. levels) in philosophy of religion and ethics. A notable library collection is provided as part of this program: the Kingfisher College Collection in Philosophy of Religion and Ethics.

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**Undergraduate Study**

**Bachelor of Arts Degree**

Undergraduate studies in philosophy are valuable for students who want a broad background for a variety of disciplines and intellectual pursuits. Students planning a career in college teaching, law, medicine or the ministry will find these studies especially useful. Two majors are offered: philosophy, and ethics and religion.

**PHILOSOPHY**

The philosophy major is an excellent preparation for professional graduate schools like business, medicine, and law, and for philosophy graduate programs. It is also ideal as a second major in conjunction with fields like physics, psychology, economics, political science, or literature. But perhaps most importantly, the philosophy major fosters curiosity about oneself and the rest of the world. Knowing what others have thought and why they thought it opens up many alternatives for one to consider. It also gives one an informed basis for arriving at one's own conclusions about one's own beliefs and values. A student of philosophy becomes a critical thinker — sharpening one's ability to reason clearly and correctly concerning important and fundamental issues.

Undergraduate philosophy majors are required to complete 30 hours in the field, including the following courses: 3253 or 4293, 3313, 3333, 4133, 4533 or 4523, and 4893. A minimum of nine hours of lower-division courses may be used to satisfy major requirements. Philosophy 4893 (Senior Capstone in Philosophy) is required of all majors. Students must pass 4893 with a grade of C or better to receive credit.

**ETHICS AND RELIGION**

The ethics and religion program is offered in recognition of the significance of studies in ethics and religion to the development of informed and sensitive students. The program serves a serious and widespread interest among students and the University's larger community.

In order to provide the desired variety of courses, this major is offered as a Planned Program. Courses are drawn chiefly from Philosophy, but also from the Departments of Anthropology, Classics, English, History, Political Science Sociology, and the Religious Studies program. In addition to coursework, this program is enriched by the Bizzell Bible Collection of more than 700 items (some of the finest in the world) and a notable collection of monographs and journals dealing with social, ethical and religious themes.

Ethics and religion majors are required to complete at least 30 hours in the field, including 2403, 2525, 4893, and any three of the following: 1203, 3293, 3313, 3333, 3423, 3433, 3445, 3713, and 4293. A minimum of 15 hours of upper-division courses must be used to satisfy major requirements. Philosophy 4893 (Senior Capstone in Philosophy) is required of all majors. Students must pass 4893 with a grade of C or better to receive credit.

Ethics and religion majors may choose, as their electives, a minimum of 12 hours of coursework from other disciplines related to studies in ethics and religion or from other philosophy courses. Appropriate courses shall be determined for the student in consultation with the student's adviser.
Minor
The minor requires at least 18 hours of philosophy, nine of which must be upper division, including Philosophy 1103 or 1113; 3313 or 3333; and a course from one of the following areas: aesthetics, ethics, philosophy of religion, social and political philosophy. Students with special interests should consult one of the undergraduate advisers.

COURSES FOR NON-MAJORS
Most students who take philosophy courses are not philosophy majors. At least some of the topics covered by the various courses in philosophy—e.g., moral, legal, aesthetic and religious values, logic, the theory of knowledge and the history of human thought on these subjects—are bound to be of interest to most college students. Nonmajors are welcome in any course for which they have the appropriate prerequisites. Consult the course listings in this catalog for information on prerequisites for courses above 3000.

Doctor of Philosophy Degree
The Ph.D. requires a minimum of 90 hours of graduate work, of which a maximum of 30 hours may be dissertation research. Symbolic Logic II, nine hours of history of philosophy (at least three in ancient and three in modern), nine hours of metaphysics and/or epistemology (at least three in metaphysics and three in epistemology), and nine hours of ethics (at least six in non-applied ethics) are required. All required courses must be passed with a grade of B or better. With approval of the advisory committee, up to 12 hours may be taken outside the department. Doctoral candidates should be thoroughly familiar with the general requirements of the Graduate College. Where it is deemed necessary, the advisory committee may require proficiency in one or more foreign languages. After successfully completing a general examination in the student’s special field, followed by an oral examination (for details, consult the department), the student will prepare and submit a dissertation, which is supervised by the student’s dissertation committee. For further details, see the section “Doctoral Dissertation” in the General Catalog.

Contact the department for a copy of the graduate syllabus, which provides detailed information on graduate programs in philosophy.

Department of Physics and Astronomy

Ryan Doezema, Chair
Kimball Milton, Graduate Liaison
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Internet: http://www.nhn.ou.edu/
e-mail: doezema@mail.nhn.ou.edu

Faculty Roster
Professors: Baron, Branch, Cowan, Doezema, Fumeaux, Gutierrez, Henry, Kantowski, Milton, Morrison, Parker, Skubic, D. Watson; Associate Professors: Johnson, Mason, Muller, Romanishin, S. Ryan, Santos, Shafer-Ray, Strauss; Assistant Professors: Abbott, Abraham, Bumm, Kao, Leighly, Shafer, Wang.

Degrees Offered
• Bachelor of Science
• Bachelor of Science in Physics
• Bachelor of Science in Astrophysics
• Master of Science
• Master of Natural Science
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. For additional information on graduate programs, individual documents detailing each graduate program are available from the Graduate College and their website at http://gradweb.ou.edu/. This information is updated yearly and should be referred to for graduate program requirements.
General Information
The Department of Physics and Astronomy has a long tradition of educating scientists, engineers and science teachers who have achieved distinguished careers as researchers and leaders in industry and education. Innovative education programs have been an integral part of the department since its inception and are still its tradition. Examples include:
- The Engineering Physics Program, the first of its kind when it was begun in 1924.
- The founding of the American Association of Physics Teachers and the American Journal of Physics in the 1930s.
- The New Avenues for Women Program, begun in 1971, has led to a new and exciting way of teaching our introductory physics.
- The Research Experience for Undergraduate Programs has involved students throughout the country in summer physics research. Our graduates include a former Science Advisor to the President of the U.S., who was previously director of NSF, one president of a state university, one U.S. ambassador, five founders of corporations, one famous Arctic explorer, the founder and first editor of the American Journal of Physics, three other journal editors, three inventors, seven research laboratory managers, seven department chairs, one Rhodes Scholar, two Guggenheim Fellows, 76 university professors, and more than 500 other people devoted to advancing knowledge and improving the quality of life.

Programs for Academic Excellence
Visiting professors, post-doctoral fellows and weekly colloquium speakers promote academic excellence within the department. Supported by state moneys and private endowment, the department plays host to a large number of visiting scientists each year. These persons bring the latest developments in their areas of interest to the attention of students and faculty, and their visits present opportunities to exchange scientific ideas. The department is actively involved with the Honors College offering exceptional students the opportunity to do advanced study.

The Society of Physics Students (SPS) has an active chapter at the University with the department providing support for various activities, such as conference trips. Members also provide special tutoring sessions for beginning physics and astronomy courses.

Special Facilities and Programs
The Department of Physics and Astronomy possesses an excellent scientific library of about 20,000 volumes and more than 150 journal subscriptions. Ancillary library holdings include the world-famous History of Science Collection. A well-equipped and staffed in-house machine shop is provided for use by students.

Excellent computing facilities include an IBM RS/6000 server with 512 Mbytes of memory serving workstations running UNIX (this system is rapidly expanding). Over 40 workstations include SUN, DEC Alpha, and IBM RISC systems, and all computers are on a 100 Mbs Ethernet network. There are more than 250 Gbytes of disk space among these systems. The special software systems AIPS and IRAF for the reduction of astronomical data are available. The department also has an IBM SP2 supercomputer. Some faculty and graduate students make use of supercomputer facilities at Los Alamos, and through the NSF supercomputer network to which we currently have direct access over the Physics network.

The department has well-equipped laboratories for research in atomic and molecular collisions, epitaxy, low-temperature solid state physics, materials characterization, and instrumentation in high-energy physics. In 2000, we were awarded a multimillion dollar NSF funded Materials Research Science and Engineering Center with the University of Arkansas. This center will greatly expand our research effort in nanostructures. Many programs make use of facilities at national laboratories, such as CLEO, Fermilab, and Los Alamos. The high-energy group is part of the DØ and ATLAS collaborations. Astronomical research requires use of national observatory facilities at Arecibo, VLA, Kitt Peak, Cerro Tololo and the Hubble Space Telescope. There is a small on-campus observatory for class use and public viewing.

Scholarships and Financial Aid
The department offers a number of scholarships each year to students majoring in physics, astronomy, or engineering physics. The scholarships range from $600-$1,500 per academic year and are renewable. This helps the student to be in the mainstream of his or her professional interest while receiving financial assistance throughout the undergraduate years. Applications (consideration deadline March 15 for following fall) may be obtained from Undergraduate Programs-Physics, Nielsen Hall, Room 131, Norman, OK 73019-0225.

Teaching and research assistantships are offered on a competitive basis to graduate students. In 2001, for students with 12 month support, assistantships ranged from $15,000-$20,000 per year. Departmental applications for graduate study may be requested from: Graduate Programs-Physics, Nielsen Hall, Room 131, Norman, OK 73019-0225.

Undergraduate Study

INTRODUCTORY COURSES
Physics 1205 and 1215 form a basic sequence for physics, astrophysics and astronomy majors to be begun in the first semester of the freshman year. Physics 2514 and 2524 comprise a two-semester basic sequence intended for engineers and other physical science majors who need to satisfy a physics requirement. Physics 2414 and 2424 comprise a two-semester sequence for premedical, medical technology, life science and other majors needing a noncalculus introductory physics course.

Duplicate credit may not be received for 1114, 1205, 2414, 2514; for 1215, 2424, 2524; nor for Astronomy 1504 and 1514 . Physics 1114, 1302, 1453, and Astronomy 1504 may not be counted as major work.

PHYSICS DEGREES
The student whose major is physics may work for the professional degree of Bachelor of Science in Physics or for the standard degree of Bachelor of Science in the College of Arts and Sciences. The engineering physics program is an interdisciplinary degree program which combines the course offerings and research activities of the Department of Physics and Astronomy and the College of Engineering. The degree program is offered by the College of Engineering and detailed information concerning the program will be found in the College of Engineering section of this catalog.

To earn the professional degree the student must complete 45 hours of major work in physics, including the following courses: Physics 1205, 1215, 2064, 2302, 2312, 3054, 3113, 3183, 3302, 3312, 3803, 4153, 4300 (four hours), one of 4213, 4243, or 4813. Chemistry 1315, Mathematics 2443, 3413, 3423, and three additional hours of mathematics at the 3000 level or above are also required.

Physics 4183, 4803, and an astronomy course at or above the 3000 level are recommended.

To earn the standard degree the student must complete 37 hours in physics, including Physics 1205, 1215, 2064, 2302, 2312, 3054, 3113, 3183, 3302, 3803, and 4300 (4 hours). Chemistry 1315 and Mathematics 2443 and 3413 are also required.

ASTROPHYSICS DEGREE
Students whose major interest is the application of physics to modern astrophysics may work for the professional degree of Bachelor of Science in Astrophysics.

To earn this degree the student must complete 50 hours of major work in physics and astronomy. The following courses must be included: Physics 1205, 1215, 2064, 2302, 2312, 3054, 3113, 3183, 3302 or 3312, 3803, 4300 (four hours); and Astronomy 3103, 3113, 4303, and four hours credit in 4512. Chemistry 1315 and Mathematics 2443, 3413 are also required.

It is recommended that the student complete a course in astronomy at the 5000 level and at least one of the following courses: Physics 4153, 4183, 4213, and 4803.
**ASTRONOMY DEGREE**

The student whose major is astronomy may work for the standard degree of Bachelor of Science.

To earn this degree the student must complete 35 hours of major work in physics and astronomy. The following courses must be included: Physics 1205, 1215, 2064, 3054, 3113, 4300 (four hours); Astronomy 3103, 3113, 4512, and two elective hours in astronomy. Chemistry 1315 and Mathematics 2443, 3413 are also required.

**ALL DEGREES**

A grade of C or better must be earned in each required physics, astronomy and mathematics course. A course in the history of science is recommended for all degrees.

For purposes of applying the 48 hour rule (see general college regulations), physics and astronomy are considered to be separate departments except that no more than 72 credit hours in physics and astronomy combined may be counted toward the minimum 124 hours required for graduation.

More information on the physics, astrophysics, astronomy and engineering physics programs, including a complete semester-by-semester curriculum, may be obtained by writing or calling the Department of Physics and Astronomy, University of Oklahoma, Norman, OK 73019-2061, (405) 325-3961.

**MINORS**

Minors are offered in physics and astronomy. The minor in physics requires Physics 1215*, 1215*, 2064, 3113, and one of Physics 3054, 3183 or 3803. Mathematics 3413 is also required. (*Physics 1205 and 1215 may be replaced by Physics 2514 and 2524, plus either Physics 1302, 2302, or 3302.)

The minor in astronomy requires Physics 1205*, 1215*, 2064, 3113, and Astronomy 3103, 3113, and 4512. Mathematics 2443 is also required. (*Physics 1205 and 1215 may be replaced by Physics 2514 and 2524).

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**Graduate Study**

**AREAS OF SPECIALIZATION**

Research areas available for both M.S. and Ph.D. degrees include astronomy, astrophysics, atomic molecular physics and chemical physics, condensed matter, high energy, and applied physics.

**ADMISSION REQUIREMENTS**

In addition to the general admission requirements of the Graduate College, a student must have completed the equivalent of the following courses to attain full graduate standing: Math 3113; Physics 3054, 3183, 3803, and 4153. The graduate selection committee will determine if these prerequisites have been satisfied.

**MASTER OF SCIENCE DEGREE**

The department offers Master of Science programs with or without the thesis.* The thesis program requires the student to complete at least 30 hours of prescribed coursework and present a thesis detailing results of a research investigation. The nonthesis program requires the student to complete at least 32 hours of prescribed coursework and pass the department’s Qualifying Examination. This will serve as the comprehensive examination required by the Graduate College.

For the thesis program the student must complete at least 18 hours of physics and astronomy courses numbered 4000 or above. These hours must include two to four hours of Physics 5980. For the nonthesis program the student must complete at least 20 hours of physics and astronomy courses numbered 4000 or above. These 18 (or 20) hours may not include prerequisite courses Physics 4153, 4300, Astronomy 4303, or 4510.

The student must also complete at least 12 hours of other graduate coursework, which may include Physics 4153, 4300, Astronomy 4303, and 4510, or their equivalent.

* An M.S. with an emphasis in astronomy requires a thesis.

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**MASTER OF SCIENCE (ENGINEERING PHYSICS)**

The Master of Science degree in engineering physics is offered as either a thesis or nonthesis program. The nonthesis program requires completion of 32 hours of graduate coursework (comprised of a minimum of 12 hours of physics and 12 hours of engineering courses), and the student must also pass the Qualifying Examination. The thesis program requires the completion of 30 hours of graduate coursework including a research thesis on some topic of applied science. Up to four credit hours of 5980 must be included.

If the student’s research adviser is from the College of Engineering, a minimum of 12 hours of physics and nine hours of engineering courses is required; if the adviser is from the Department of Physics and Astronomy, a minimum of nine hours of physics courses and 12 hours of engineering courses is required.

All programs of graduate study must be approved by the Engineering Physics chair or a duly appointed representative. All students in engineering physics must complete at least one three-hour math course numbered 4000 or higher. (The student may not receive credit for any course that is equivalent to one required in the undergraduate engineering physics program.)

**MASTER OF NATURAL SCIENCE DEGREE**

Physics is one of the fields which may be used to meet the requirements of the degree of Master of Natural Science. The degree is designed for students interested in teaching science in the secondary schools. The details of this degree are described under Natural Science in this catalog. There are no detailed physics requirements.

**DOCTOR OF PHILOSOPHY DEGREE (PHYSICS AND ASTRONOMY)**

The Ph.D. program requires the student to complete at least 90 hours of coursework, and pass the written Qualifying and General (Specialist) Examinations, and complete and successfully defend the results of original research as a dissertation.

The student must complete at least 90 hours of graduate coursework as follows: 36 hours or more of required physics and astronomy courses, which must include Physics 5013, 5153, 5163, 5393, 5403, 5573, and 5583.

In addition to the above 21 hours, students must complete at least 15 hours of other physics and astronomy courses numbered 5000 or above (excluding 6980, which may be included below). To complete the remaining 54 hours of required coursework the student may use any combination of coursework at or above the 4000 level in physics or astronomy, courses in other departments listed as acceptable for graduate credit, and dissertation credit hours (Physics 6980).

Additional course requirements that are appropriate to the student’s area of research specialization may be required by the Advisory Committee. In addition to an overall GPA of 3.00, candidates for the Ph.D. degree must receive a grade of B or better in the required core courses: 5013, 5153, 5163, 5393, 5403, 5573, 5583.

All Ph.D. students are required to take an appointment as a teaching assistant with a minimum of two semester contact hours for two semesters. This teaching practicum is independent of financial support by the department.

The Qualifying Examination will be given once each year during the week prior to the beginning of classes for the fall semester. The examination deals with four subjects (mechanics/statistical mechanics, electromagneto theory, quantum mechanics, and modern physics or astrophysics). The modern physics exam is satisfied by passing three graduate courses, Physics 5213, 5243, and 5813 with a grade of B or better. The examination is constructed by a committee of faculty members. The student must have attempted all four parts of the Qualifying Exam by the end of his/her fourth semester. Every student will be given two opportunities to pass the examination.

After passing the Qualifying Examination and choosing a research adviser and an Advisory Committee, an advisory conference will be convened by the student. The Report of the Advisory Conference, to be approved and held by the Graduate College, sets the specific course requirements for each student’s degree program. In most cases the Advisory Committee becomes the doctoral committee.
The General Exam, which we call the Specialist Examination, is an oral and written presentation of a topic related to but not the same as the student’s dissertation subject. It also consists of an oral examination over the material in the presentation and related basic physics. This General Examination is normally not taken until the student has completed all required coursework and has chosen a research area.

The final requirement for the Ph.D. degree will be the doctoral dissertation, an original piece of research conducted personally by the student which constitutes a contribution to knowledge. The dissertation must be defended in a final oral examination.

DOCTOR OF PHILOSOPHY (ENGINEERING PHYSICS)

Students who are interested in the engineering physics doctoral program should refer to the general requirements of the Graduate College and the College of Engineering. Every student will be assigned an advisory committee who will determine the specific requirements within the guidelines set by these colleges and the career study goals of the student.

The required physics core courses and the Qualifying and Specialist exams are the same as for physics.

Department of Political Science

Greg Russell, Chair
Aimee L. Franklin, Director of Graduate Programs
Dale Hall Tower, Room 205
Norman, OK 73019-2001
Phone: (405) 325-2061
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Internet: http://www.ou.edu/cas/psc/

Faculty Roster


Degrees Offered

• Bachelor of Arts
• Master of Arts
• Master of Public Administration
• Doctor of Philosophy

General Information

The Political Science Department is the academic home for faculty, staff members, undergraduate students, and graduate students who share a love of politics and a devotion to learning. The department offers two undergraduate degrees, one in political science and the other in public affairs and administration. Master’s degrees in both political science and public administration and the doctorate in political science are also offered.

The Political Science Department is among the most intellectually eclectic at the University of Oklahoma. Faculty and students pursue research and study in topics as varied as American politics, comparative politics and international relations, and public affairs and administration. Many faculty and students study such subjects as public policy, political theory, gender and politics, political communication, and political development. There are no orthodoxies, but instead an environment in which a diverse group of faculty and an even more diverse group of students pursue a multiplicity of paths to knowledge.

The department’s intellectual diversity is matched by (and is in part the product of) institutional creativity and flexibility. Affiliated with the department are the Carl Albert Congressional Research and Studies Center, the OU-POLL (Public Opinion Learning Laboratory), the Institute for Public Affairs, the International Programs Center, School of International and Area Studies, the Religious Studies Program, and Advanced Programs through the College of Continuing Education.

Programs for Academic Excellence

The Carl Albert Congressional Research and Studies Center, in cooperation with the Department of Political Science, sponsors a nationally competitive five-year specialized Ph.D. program. The program offers graduate students a dual perspective on the workings of Congress by affording them opportunities to study the institution both on-campus and in Washington, D.C. as a congressional staff member. The undergraduate research program of the Carl Albert Center provides unique opportunities for a select group of undergraduate students to work with faculty in collaborative research. The Carl Albert Center Congressional Archives contains the papers of more than 50 former members of Congress. These historical documents, manuscripts, audio/video tapes, and photographs are a valuable resource for primary research and have been utilized by political scientists and historians from across the country. In seeking to foster a wider understanding and appreciation of Congress through civic education programs, the Carl Albert Center sponsors the biennial Julian J. Rothbaum Distinguished Lecture in Representative Government, which is among the most distinguished lecture series of its kind and has resulted in a book series published by The University of Oklahoma Press. The Center also created a series of traveling exhibits on Congress that toured the state and were subsequently reproduced as poster sets for public schools and libraries. Twice each year the Center publishes a journal, Extensions, as a forum for discussion of representational government. The Center’s website is http://www.ou.edu/special/albcenter/

Special Facilities and Programs

Over 30 years ago the faculty in the Department of Political Science created an innovative program for non-traditional graduate students in public administration. Public administration continues to offer courses in this unique “intensified format” and, in Oklahoma, the Master of Public Administration program can be completed at either the Norman campus, the Oklahoma Center for Continuing Education, the OU Health Sciences Center, or OU-Tulsa. In addition, the program is offered at military installations in Asia/Pacific, Oklahoma, Washington, D.C., and several other U.S. sites. The intensified format, in which classes are taught on two or three successive weekends or in one-week evening seminars, is especially useful for students who are fully employed and have difficulty leaving the workplace to attend a graduate program. Students admitted to the Master of Public Administration program can complete the degree with on-campus courses, weekend courses, or a combination of both. Additional information can be obtained by writing to Programs in Public Administration, Department of Political Science, 455 W. Lindsey St., Room 305, Norman, OK 73019-2001.

The University of Oklahoma Public Opinion Learning Laboratory (OU-POLL), a state-of-the-art survey research center, was created by President David Boren in 1999. OU-POLL specializes in public opinion research and the training of students in survey research techniques. It jointly sponsors the University of Oklahoma-Daily Oklahoman Political Poll. OU-POLL also conducts polls for various public, not-for-profit, and private organizations. Additional information can be obtained by contacting the OU-POLL, Coordinator of Program Development, 640 Parrington Oval, Room 301, Norman, Oklahoma 73019.

The Institute for Public Affairs, established in 1995, conducts applied research on public policy issues affecting Oklahoma. The Institute provides policy research and technical assistance, training and leadership development, and civic education for public sector and non-profit audiences. The Institute draws on the diverse backgrounds, interests, and expertise represented among the faculty throughout the University. Faculty associated with the Institute work in the areas of policy analysis and policy
formulation, program design, program evaluation, and design and assessment of operating systems such as budgeting and personnel. Since its inception on October 1, 1995, the Institute has received funding for grants and contracts totaling $3.0 million. For more information, contact Dr. Thomas E. James, Director, 455 West Lindsey, Room 304, Norman, OK 73019-2002.

Student Organizations
Undergraduate and graduate students who qualify are invited to join Pi Sigma Alpha, the national political science honorary society. Other student organizations of interest to department majors are: College Republicans, Model United Nations, Oklahoma Intercollegiate Legislature, OU Pre-Law Club, Student Association for Public Administration, and Young Democrats.

Scholarships and Financial Aid
The Political Science Department offers several scholarships and awards to both undergraduate and graduate students who qualify. The Benson Undergraduate Paper Award for the most outstanding undergraduate research paper confers a cash award to the recipient. The Joseph Crim Pray Award for the best paper written for a 2000-level “gateway” course in political science also confers a cash award. The June and Oliver Benson Memorial Scholarship, the Kelly Sullivan Memorial Scholarship, and the John Halvor Leek Memorial Scholarships are merit scholarships for Political Science and Public Administration majors at the junior level. The Allan Saxe Award is a scholarship based on both merit and need for Political Science and Public Administration majors at the junior level.

Graduate students can be considered for the John Halvor Leek Memorial Scholarships for graduate students. Students in the Master of Public Administration program are eligible for the Walter F. Scheiffer Scholarship. Doctoral students’ writing and research can be nominated for the V. Stanley Vardys and David R. Morgan awards, which confer cash awards. The Ronald M. Peters Jr. award recognizes outstanding graduate teaching assistants. The Hugh MacNiven Award is given for the most outstanding research paper written by a student in the MPA program and confers a cash award. Graduate students can also apply for graduate assistantships in the department; these are primarily teaching assistantships.

The Carl Albert Center funds fellowships at both the undergraduate and graduate levels. Students who are at least sophomores can apply for the undergraduate fellowships which offer students the opportunity to conduct collaborative research in politics and government with faculty members. The graduate fellowships are nationally competitive.

The Cortez A. M. Ewing Public Service Fellowships are 10-week Washington internships funded by the Ewing Foundation. Students receive travel and living expenses. Awards are made after a competition open to students from all fields and majors.

The College of Arts and Sciences awards Robert Dean Bass Memorial Scholarships to students in political science and economics who plan on careers in government. The College also awards the A.R. “Bert” Larson Public Service Scholarships to students in political science, social work, and journalism who plan on careers in public service.

Choosing the right courses and combination of courses is very important. The student should consult with the Political Science Department’s academic counselor as well as faculty members. Recommended free electives include courses in history and economics and any courses that stress proficiency in writing (English and foreign languages) and rigorous thinking (philosophy). Also recommended are courses in mathematics and statistics that will prepare students for advanced research techniques and data analysis. Ideally, a tentative program of coursework should be formulated at the beginning of the sophomore year in consultation with an adviser, with constant evaluation and re-evaluation of the program in subsequent semesters. Students interested in preparing for admission to a law school should consult Professor Emeritus Paul A. Tharp Jr., the department’s pre-law adviser.

PUBLIC AFFAIRS AND ADMINISTRATION
The Public Affairs and Administration major is an interdisciplinary program administered by the Department of Political Science. It is an ideal choice for those students interested in public service—both in the policy and the administrative arenas. All students must complete PSC 2173, 2223, eighteen hours in approved political science courses in public administration and public policy, three hours in American political institutions, and the capstone seminar. In addition, they must complete six hours of upper-division coursework in economics, accounting, management, or statistics from a list of approved courses, for a total of 39 hours. A minimum of 15 upper-division hours must be completed. Students must also complete Economics 1113 and 1123 as prerequisite coursework. These courses will not apply toward the 39 hours of major credit.

Students planning to be public administrators are encouraged to enroll in elective credit in history, sociology, communication, economics, foreign languages, computer science, and geography.

CAREERS
The study of political science and public administration is an excellent foundation for careers in law and law enforcement; government service at the national, state, and local levels, from federal agencies to city managers; politics, such as campaign management or lobbying or elective office; professional research for a “think tank;” labor relations; political journalism; teaching at the secondary and university levels; the diplomatic corps; management in the public and nonprofit sectors, in such areas as health care management and human resource management; consulting; international business; urban planning and development; business management; and policy analysis.

MINORS
Students majoring in other subjects may minor in political science or public affairs and administration. The requirements for the minor in political science are at least 15 hours of political science, excluding Political Science 1113; at least nine of which must be upper-division work. The department’s academic counselor is available to students needing help in choosing appropriate courses.

Students may also minor in public affairs and administration. The requirements are at least 15 hours of upper-division political science chosen from a list of approved courses. Two upper-division courses in economics, Economics 3713, Governmental Relations to Business, and Economics 4353, Public Finance, may also apply toward the minor. Professor Glen Krutz can assist students in the selection of courses that best serve their academic or career interests.

UNDERGRADUATE STUDY

POLITICAL SCIENCE
The Political Science major requires 36 hours of major credit, excluding Political Science 1113, which is the prerequisite for all other courses in political science and may not be counted as major work. At least 15 hours must be in upper-division work.

All students must complete four 2000-level “gateway” courses and a capstone seminar. The four 2000-level courses must be completed prior to enrollment in the capstone seminar. A grade of C or better must be obtained in the capstone course.

GRADUATE STUDY

AREAS OF SPECIALIZATION
American government and politics, comparative politics, international relations, political theory, public administration, and public policy.

ADMISSION REQUIREMENTS
In addition to meeting the general admission requirements of the Graduate College, the student electing to work for degrees in political science should
have, at a minimum, 15 undergraduate hours of political science and nine undergraduate hours of other social sciences, or 24 hours in political science. Those who do not meet this criterion are still eligible for admission but may be required to take additional hours in order to be prepared for work at the graduate level. Exact prerequisites will be determined after consultation with an advisor and assessment of the student’s preparation for graduate study.

For admission to the M.A. and Ph.D. programs, the department requires submission of three letters of recommendation, the scores of the general test of the Graduate Record Examination, and, for the Ph.D., a statement of approximately 1,000 words describing the applicant’s academic purpose, background and goals. A TOEFL score of 250 on the computer-based test or 600 on the paper-based test or more is required of all applicants for whom English is a second language. The admissions application, application fee, official transcripts, and if applicable, official TOEFL scores should be sent directly to the Office of Admissions.

In addition to the general admission requirements of the Graduate College, an applicant to the M.P.A. program must present a minimum of 15 undergraduate or graduate hours of credit in public administration, political science, management, or a related social science discipline. If an applicant lacks such hours, he or she may be required to take additional prerequisite coursework. Administrative or management experience may be used to satisfy or help offset the requirements for prerequisite courses. A TOEFL score of 600 or more is required of all applicants for whom English is a second language. For more complete information on programs in public administration and on admission requirements, write to: Programs in Public Administration, Department of Political Science, University of Oklahoma, 455 W. Lindsey St., Room 205, Norman, OK 73019-2001.

Complete admission requirements and a full description of the departmental programs and procedures can be obtained by writing to the Director of Graduate Studies, Department of Political Science, the University of Oklahoma, 455 West Lindsey St., Room 205, Norman, OK 73019-2001, or on the graduate program web site, www.ou.edu/cas/psc/gradprogcover.html.

Applications for admission to the M.A. and Ph.D. will be considered only three times each year, in March for summer and fall semester, in June for the fall semester, and in October for the spring term. Applications for the M.P.A. are considered on a continuous admissions process.

MASTER OF ARTS

The M.A. degree in political science provides excellent preparation for doctoral work for those in public non-profit, or private careers who find further professional development necessary. Advanced work in political science may also serve as enrichment for those who would simply like to know more about the workings of government and politics. The degree program provides a basic minimum of structure to ensure that participants will obtain the necessary groundwork in political science. Beyond the basic requirements, there is an opportunity for significant specialization in the fields of most interest to the student. The M.A. is a 36 credit hour degree and may be taken with a thesis or nonthesis option. The nonthesis option requires a final research paper. If desired, the M.A. program may be designed to encompass coursework taken in related departments or programs. All candidates for the degree must take PSC 5913, Introduction to Analysis of Political and Administrative Data, or an equivalent course.

MASTER OF PUBLIC ADMINISTRATION

The M.P.A. degree is designed to provide the student with an understanding and knowledge of government and its environment. As a professional program, emphasis is placed upon learning those administrative concepts, processes, and techniques that are associated with managing the public’s business. The academic base for the M.P.A. consists of required courses which include research methods, analysis, evaluation, and budgeting and area requirements in management, public policy, organizations, and American political process. The program integrates the theoretical with the practical dimensions of administration and encourages a broad academic and professional perspective. M.P.A. graduates typically enter the public or not-for-profit sectors, although many graduates have used the expertise gained in the program to enter and/or enhance careers in business and corporate enterprises. The M.P.A. program is a non-thesis program requiring 36 credit hours, a final comprehensive examination, and a final research paper.

A minimum of 24 credit hours must be offered in the public administration/public policy area. The remaining credits may be taken in additional public administration core or cognate courses chosen from such related disciplines as accounting, business, economics, finance, geography, human relations, management, urban planning and sociology. Before taking credits other than those specifically listed as acceptable for the M.P.A. degree, students must contact Programs in Public Administration to determine the applicability of the credit to the degree. Their website address is www.ou.edu/cas/psc/mpa/.

In addition to providing a basic foundation in public administration, the MPA program allows concentrations. By choosing elective courses and a research paper topic, students have the option of developing expertise in a specific subject. In the first semester of enrollment in the program, students must complete a one-hour introductory course in public administration. Course syllabus information for PSC 5960 is available through Programs in Public Administration. Students must complete a set of required courses including research methods and courses from representative areas of public administration such as organizations, management, public policy, and American political process. A minimum of three, up to a maximum of 24 credit hours in Political Science 5950, Research Problems, is required for the degree.

DOCTOR OF PHILOSOPHY

The Ph.D. degree in political science is a program of highly advanced study and scholarship. Primarily oriented toward developing the capacity for scholarly research and writing, the degree has nevertheless been found useful by those in private or public careers who would like to supplement their work with a program of personal intellectual development. A minimum of 90 semester hours of coursework beyond the bachelor’s degree is required. Doctoral students must be prepared to take the General Examination in three fields of the discipline within five years of entering the graduate program (four years if entering with a master’s degree). In addition to the required three fields of specialization, each doctoral student must fulfill a research tool requirement. A research tool may include proficiency in selected foreign languages or a proficiency in quantitative and qualitative methods. A doctoral candidate is expected to complete the degree requirements within four years after passing the General Examination. Students in the Ph.D. program must meet certain requirements in developing research tools and in familiarizing themselves with the broad spectrum of the discipline. Beyond this minimum of required courses, however, a detailed program will be developed by the student and the doctoral advisory committee in order to pursue the student’s major interests, and to lay the groundwork for a doctoral dissertation.

Opportunities for specialized study and research are provided by programs affiliated with the department, including the Carl Albert Congressional Research and Studies Center and the International Programs Center.

Kieran Mullen, physics professor and recipient of the 1998 Irene Rothbaum Award for Outstanding Assistant Professor in the College of Arts and Sciences, reviewing principles with students.
Department of Psychology

Jorge Mendoza, Chair
Robert Terry, Graduate Liaison
Dale Hall Tower, Room 705
Norman, OK 73019-2007
Phone: (405) 325-4511
FAX: (405) 325-4737
Internet: http://www.ou.edu/cas/psychology/

Faculty Roster
Professors Devenport, Gilliland, Gronlund, Mendoza, Mergler, Mumford, Rodgers, Toothaker; Associate Professors Judice-Campbell, Murphy-Kelsey, Showers, R. Terry; Assistant Professors Bosson, Brown, Connelly, Cox-Fuenzalida, Day, Hahn, Kisamore, Steinheider.

Degrees Offered
• Bachelor of Arts
• Bachelor of Science in Psychology
• Master of Arts (Organizational Dynamics)
• Master of Science (Psychology)
• Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. For additional information on graduate programs, individual documents detailing each graduate program are available from the Graduate College and their website at http://gradweb.ou.edu/. This information is updated yearly and should be referred to for graduate program requirements.

General Information
The Department of Psychology was founded in 1928. The primary emphasis of the department is on scientific psychology. At the present time, the department is focused on the areas of cognitive, social/personality, quantitative psychology, animal behavior, developmental, and industrial/organizational psychology.

The teaching mission of the undergraduate psychology program is:
• to provide a major that presents psychology as a science of behavior and cognition;
• to provide a major that is consonant with the general requirements of the College or Arts and Sciences and exemplifies the best of a liberal arts degree by serving as a bridge between the scientific-quantitative modes of thought and the more traditional arts and humanities; and
• to maintain requirements and offer coursework that will prepare undergraduate majors for a wide variety of graduate training in the behavioral sciences, as well as professional training in the health professions and law.

The teaching mission at the graduate level is:
• to provide a required core of survey courses in experimental psychology and statistics that serves to give a broad knowledge of scientific psychology and research methodology, and
• to provide conditions that will foster a research training program for behavioral and cognitive scientists.

The department provides research training by means of a curriculum that requires graduate students to be involved in research beginning with their first enrollment and continuing every semester thereafter.

Facilities and Programs
The laboratory and teaching facilities of the Department of Psychology are housed primarily in a social science complex of buildings. In this complex modern research laboratories exist for animal behavior, industrial, human learning, cognitive processes, physiological experimental personality, social psychology, and quantitative analysis and measurement. Additional facilities are available for research in animal behavior in conjunction with the Department of Zoology.

The Department of Psychology possesses excellent computing facilities and state-of-the-art electronic instruments for psychological research. The department maintains its own server with local area network capability within the larger university computing network. Our Data Analysis Center is equipped with modern PCs providing a wide range of current application packages for manuscript and presentation preparation, data analysis, instructional support, and internet access. Laboratories are equipped with over 200 PCs, many networked internally and/or externally with internet accessibility.

Scholarships and Financial Aid
At the undergraduate level, the department offers scholarships of $350 annually. The TOPS-General Psychology and TOPS-Quantitative Psychology scholarships have a December 1 application deadline for the following year. Students with at least junior standing and a superior record in coursework are encouraged to apply through the department.

Outstanding students with a career interest in psychology are strongly encouraged to join the Psi Chi National Honor Society and/or to become student members of one or more of the state, regional and national psychological associations.

At the graduate level, the department has been able to provide financial support to most of those students wishing to be supported in recent years. Summer support is available on a competitive basis.

Undergraduate Study
Students considering a major in psychology should contact the academic counselor in the Department of Psychology.

The Department of Psychology offers two degrees at the undergraduate level, the B.A. and the B.S. in Psychology. The B.A. degree requires a minimum of 34 hours (minimum 22 upper division) in psychological science, and the B.S. in Psychology degree requires 48 hours (minimum 36 upper division) of psychological sciences. Both degrees also require specific courses from other departments. The program of study in psychology that culminates in a Bachelor of Arts degree provides the student with experiences necessary to pursue post-baccalaureate education in psychology and cognate areas, with the training required to secure employment immediately following completion of the undergraduate degree, and with the broad education essential to the formation of an enlightened thoughtful citizenry. The B.A. degree in psychology thus provides the background necessary to continue education in graduate school, to seek employment after graduation, or to become a well-rounded, informed individual. The B.S. in Psychology is designed to provide additional training and experience in research to those students who have demonstrated mastery of the basic scientific concepts and methodology.

CAREERS
Students with strong academic records anticipating careers in psychology or closely related fields are advised to participate in the enriching experience of conducting psychological research under the supervision of a faculty member under course numbers such as 3980, 3990 and 4990. Students planning graduate study should, by their junior year, closely study the annual publication of the American Psychological Association entitled Graduate Study in Psychology, which is available in the department or for purchase at the University Bookstores. This publication fully describes all psychology graduate programs at universities in the United States and Canada. A publication on career options is also available through the department.
Students pursuing the bachelor’s degree as a terminal degree are encouraged to seek academic counseling on an intensive level with a faculty adviser, and to consult closely with the University’s job placement service.

**BACHELOR OF ARTS**

The faculty of the Department of Psychology believe that undergraduate training in psychology is best accomplished by giving the student an appreciation of the foundations of psychology as a life science and to allow the student to build on this foundation when the student has formulated his or her personal and professional aspirations. Thus, the curriculum leading to a B.A. comprises required courses within the psychological sciences, required courses within the other sciences, electives in psychology and free electives. The electives should be chosen in consultation with an academic adviser.

**Degree Requirements**

A. Three courses (10 hours): PSY 1113, 2113, 3114.

B. Two courses (six hours) from: PSY 2213, 2403, 2603, 3703.

C. Three courses (nine hours): PSY 3003 or 4023, 3083, 3203, 3303, 3803, 4923, 4453.

D. Two-three courses (6-9 hours) of upper-division psychology electives.

E. One Senior Capstone Course (three hours): from: PSY 4113, 4143, 4153.

**Major Support Requirements**

- **Computer Science**, (three hours) from: PSY 2503, Computing for Behavioral Sciences, or C S 1313.
- **Mathematics**, (three hours) from: MATH 1523, 1743, or 1823.
- **Biological Science**, (five hours): ZOO 1114 and 1121.
- **Physical Science**, (four to five hours): CHEM 1315 or PHYS 2414.
- **Additional Science**, (three to five hours): CHEM 1415, C S 1323, or any 2000-level or above course in astronomy, botany, chemistry, computer science, math, microbiology, physics, or zoology.

**BACHELOR OF SCIENCE IN PSYCHOLOGY**

The specific courses selected to fulfill the major program requirements, both in psychology and in other disciplines, must be approved by a faculty adviser and the department. Students interested in the Bachelor of Science degree program should, therefore, consult the department for an application for admission to the program and for advice on course selection and planning the degree program.

A student who fails to maintain the required 3.00 grade point average and/or fails to satisfy the other Bachelor of Science in Psychology degree requirements will receive the Bachelor of Arts degree pending satisfactory completion of its requirements.

**Degree Requirements**

A. Four courses (13 hours): PSY 1113, 2113, 3114, 4913.

B. Two courses (six hours) from: PSY 2403, 2603, 3703.

C. Four courses (12 hours): PSY 2213 or 3203, 3003 or 4023, 3083, 3303, 3803, 4923, 4453.

D. Three courses (9 hours) of upper-division psychology electives.

E. Five hours of supervised Independent Study.

F. One Senior Capstone Course (three hours): from: PSY 4113, 4123, 4153.

**Major Support Requirements**

- **Computer Science** (three hours) from: PSY 2503, Computing for Behavioral Sciences, or C S 1313.
- **Mathematics** (three hours) from: MATH 1743, 1823.
- **Biological Science** (five hours): ZOO 1114 and 1121.
- **Physical Science** (8-10 hours): CHEM 1315 and 1415, or PHYS 2414 and 2424.
- **Additional Science** (six to eight hours, including at least three upper-division hours) from: C S 2413; CHEM 1415, 3012, 3013, 3453, 3635, 3753; MATH 2123, 3083, 3333, 4723, 4733, 4753; MBIO 4843; PHYS 2424; ZOO 2204, 2343, 3013, 3103, 3333.
- **History of Science or Philosophy** (three hours) from: HSCI 3013, 3023; PHIL 3123, 4613.

A maximum of 48 hours in psychology, excluding the required capstone course, may be counted within the minimum 124 required for graduation.

**MINOR**

Students seeking a minor in psychology are required to complete 18 credit hours, nine of which must be lower-division and nine upper-division. Psychology 1113 is required and the remaining six lower-division hours are elective. All upper-level courses are eligible for completing the upper-division hour requirement, except those involving independent instruction or variable credit. Prerequisites for courses taken by minors are the same as those required of majors, except that similar courses taken in another department may be substituted for the listed psychology course prerequisite if approved by the instructor.

**Graduate Study**

**AREAS OF SPECIALIZATION**

General-experimental psychology with emphases in cognitive psychology, industrial/organizational, animal behavior, developmental, social-personality, and quantitative psychology. The department offers a master’s degree in organizational dynamics at the OU-Tulsa campus. Those interested in that degree should consult our web page under Tulsa campus degree programs.

The programs of training in the department are designed to produce experimental psychologists who are capable of assuming positions in academics, industry, and government. In a rigorous but cooperative and congenial atmosphere, high-quality research psychologists are trained to contribute to the body of knowledge of scientific psychology, as well as to disseminate and apply psychological knowledge.

**ADMISSION REQUIREMENTS**

In order to be considered for admission to the psychology graduate program, one must:

1. Have a minimum undergraduate grade point average of 3.00;
2. Present scores from the GRE verbal and quantitative tests;
3. Present a score from the GRE Advanced Psychology test;
4. Complete a departmental application including: (a) departmental application form; (b) three letters of recommendation; and (c) a personal statement.

Applicants who not only present strong academic credentials but also show evidence of substantial involvement in research as undergraduates are especially sought. Ethnic minority students are especially desired, within a philosophy that their graduate training will prepare them for careers which may significantly impact upon other minority and majority members and hence contribute in highly effective ways toward the long-term resolution of societal problems.

In addition to meeting the general requirements of the Graduate College, the student should have the following undergraduate psychology classes:

1. Introductory statistics;
2. Experimental methods;
3. An adequate sampling of courses from physiological psychology, cognition, learning, social-personality, animal behavior and developmental.

Students with deficiencies in any of these areas may be required by the Admissions Committee to take remedial coursework, (psychology courses numbered 3000–4000 which do not count for graduate credit).

Information about the doctoral program, graduate assistantships, and/or admission procedures may be obtained by writing the chair of the Graduate Admissions Committee for the department.
Degree Programs

MASTER OF ARTS (Organizational Dynamics)
The Department of Psychology offers an innovative Master of Arts degree program in Organizational Dynamics at the University of Oklahoma Graduate College Campus in Tulsa. The program emphasizes research combined with practical application. After completing core courses, students specialize in one of three general tracks: Human Resource Management, Project Management, or Knowledge Management. The admission requirements and participation requirements for this program are different from other graduate degree programs in psychology. Students interested in this program should consult with faculty members at the University of Oklahoma Graduate College Campus in Tulsa.

MASTER OF SCIENCE (PSYCHOLOGY)
The M.S. degree is conferred as: a) a mark of progress toward the Ph.D., or b) as a terminal degree. In the former case, it is earned after a student has completed 30 hours of coursework (including 5003, 5013, and 6073), a masters thesis, and a final oral defense of the thesis. In the case of the terminal M.S., the student may earn the degree after satisfying the same requirements as above; or, the student may, with departmental approval, earn a nonthesis M.S. by completing 32 hours of coursework (including 5003, 5013, and 6073), and passing written and oral comprehensive examinations.

DOCTOR OF PHILOSOPHY
In order to complete the Ph.D. in psychology a student must (in approximate chronological order):
1. Complete the department’s prescribed first year including a first-year research project, and 5901 and 5911;
2. Choose a major professor;
3. Complete a three-semester statistics sequence;
4. Participate in an advisory conference in order to plan the coursework beyond the core and statistics sequence;
5. Complete a master’s thesis and oral defense;
6. Complete the experimental psychology core (12 hours);
7. Complete the General Examination;
8. Complete at least 90 hours of coursework beyond the bachelor’s degree;

A continuing involvement in directed or independent research is expected to be a part of the student’s program of doctoral study. The department has no foreign language requirements, but a student’s Advisory Committee may recommend the development of competence in other areas of study (e.g., computer science, industrial engineering, mathematics, philosophy of science, history of science, physiology) of potential benefit to the student’s particular professional development and interests.

As a vital part of the graduate training program in psychology, all graduate students are required to be engaged in a training assignment each term. These assignments vary according to the needs and professional aspirations of the student. They are designed to supplement the more formal coursework by a variety of pre-professional activities such as assisting in research, teaching, etc., under staff supervision. The training assignment increases in responsibility as the student progresses. The amount of time required of the student varies from 10–20 hours per week, depending upon level of progress, the type of assignment, etc. The purpose of these assignments is to train the student in some of the types of activities that the student will ultimately be engaged in after the degree is received.

A student’s progress toward the Ph.D. degree is evaluated annually. Additionally, first-year students are evaluated after the first semester. The purpose of these evaluations is to provide feedback to the student and to assess the student’s proficiency based on academic coursework, progress in research, and potential for significant contributions to the profession.

Religious Studies Program

Allen Hertzke, Professor of Political Science, Director
Barbara Boyd, Director of Outreach
Tom Boyd, David Ross Boyd Professor Emeritus
Dale Hall Tower, Room 804
Norman, OK 73019
Phone: (405) 325-3349
FAX: (405) 325-1502
Internet: http://www.ou.edu/religiousstudies/
e-mail: RELS@ou.edu

Faculty Roster
The faculty of the Religious Studies Program is made up of approximately 30 faculty members from departments across the University of Oklahoma.

Degree Offered
• Bachelor of Arts

General Information
Religious Studies is an interdisciplinary program, which provides students the opportunity for academic study and examination of the role of religion as it affects every aspect of life. The Religious Studies program draws on the faculties of Anthropology, Classics, English, History, History of Science, Native American Studies, Philosophy, Political Science, Sociology (College of Arts & Sciences); Art History, Music (College of Fine Arts); Educational Leadership (College of Education), and Honors. The program seeks to enhance the student's knowledge of religious traditions and approaches, and is intended to help students develop the understandings, perceptions, and attitudes for living more successfully in an increasingly multi-cultural society and the world. Understanding the current global environment will depend on the ability to share and use knowledge about religion and culture; communicating effectively across cultures requires an understanding of the religions that inform them.

CAREERS
The Religious Studies program will provide a basis for students interested in religious vocations, such as ministry, chaplaincy, music, education, and religious institution management (including non-profit administration); Graduate school in religious studies, the humanities, or the social sciences; college and secondary teaching; as well as careers in foreign service, business, law, journalism, and public service.

Undergraduate Study
Choosing the right courses and combination of courses is very important. The student should consult with the Religious Studies academic counselor as well as faculty members and directors. Students may choose to complete the religious studies major as a complement to another degree program, such as political science or anthropology. The Program also offers room, through its elective options, to provide a concentration in preparation for religious vocation, seminary, or graduate work in religious studies.

MAJOR REQUIREMENTS
Students are required to declare their intent to pursue the degree program and complete a minimum of 36 hours, of which at least 21 must be upper division. A grade of “C” or better must be obtained in all courses for the major, including Capstone, and no course may be used more than once to satisfy major or degree requirements.
The Religious Studies major requires four areas of study; additional courses from these may be chosen for elective credit within the Program. All students must complete RELS 1113 (Introduction to Religious Studies), the prerequisite for many of the courses in the Religious Studies program. Students choose a second introductory course from Anthropology 1823 (Religion in Everyday Life), Philosophy 1203 (Philosophy & Human Destiny, East and West), or Philosophy 2403 (Introduction to Philosophy of Religion).

A second category of vital importance to the Religious Studies major is the variety of religious traditions. Students will take three courses from different traditions, chosen from HIST 3973 (Judaism–A Religious History), PHIL 3423 (Ancient and Medieval Religious Philosophy) or RELS 3123 (Comparative American Christian History), HIST 2683 (History of Islam), PHIL 3303 (East Asian Philosophy), NAS 3113 (Native American Philosophy), or topics from RELS 2013, or 3023 Religious Traditions, so long as three different traditions are studied.

Additional Religious Studies courses required are grouped conceptually. Students must choose a minimum of nine hours from three of the following four groups:

A. Religion, Literature, and the Arts—represented by such courses as World Religious Texts or several offerings from Art History;
B. Religion, Social Organization, and Politics—includes courses from political science, sociology, anthropology, or Honors;
C. Religion and History—course offerings from History and History of Science; and
D. Religion and Philosophy—including topics covering ethics and philosophy of religion.

Any additional courses taken from these categories fall into the category of electives, of which 9 hours are required. Students also have the option of choosing specifically offered RELS courses, such as internship, independent study credit, honors or directed reading, which would fall into the elective category. Internship, independent study, and honors or directed reading/research allows student to complete independent but guided work under the supervision of an RELS faculty member. Hours vary and influence the workload and activities of independent study or honors/directed reading. Internship credit is three hours and a significant written project is required.

MINOR
The student's final requirement, the Capstone, is a culmination of the work the student has completed in the major, requiring satisfactory seminar attendance and participation, and a significant written research project, combining synthetic and analytical skills.

School of Social Work
Roosevelt Wright, Jr., Director and Graduate Liaison
Dwain Pellebon, Undergraduate Program Coordinator
Rhyné Hall, Room 211
Norman, OK 73019-1060
Phone: (405) 325-2821
FAX: (405) 325-7072
Internet: http://www.ou.edu/socialwork/

Faculty Roster
Professors Cherry, Rosenthal, Wedel, Wright; Associate Professors Baker, Burman, Curiel, Davidson, Pellebon; Assistant Professors Alzate, Barney, Byers, Caselman, Priddy, Thomas; Clinical Assistant Professors Carter, Wells, Westmoreland.

Degrees Offered
• Bachelor of Arts
• Master of Social Work

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. For additional information on graduate programs, individual documents detailing each graduate program are available from the Graduate College and their website at http://gradweb.ou.edu/. This information is updated yearly and should be referred to for graduate program requirements.

General Information
Social work education has been a part of the curriculum at the University of Oklahoma since 1916-17. A separate School of Social Work was established in 1935. The two-year graduate program was fully accredited in 1957 and has maintained continuous accreditation. The undergraduate degree program gained approval in 1970 and has been continuously accredited since the inception of undergraduate accreditation in 1974. Both programs continue to maintain full accredited status from the Council on Social Work Education.

Social work is a profession devoted to positive social change and helping individuals, families, and groups to better resolve personal problems. The expansion of human service programs and areas of practice utilizing social work knowledge and skills has created a demand for professional social workers. Social work offers a challenging and exciting career for the individual who is motivated to help others and has a personal commitment to the advancement of social justice.

The school prepares practitioners for services to various client and community systems. The undergraduate and first-year graduate programs are of a generalist nature emphasizing skills, knowledge and values basic to all social work practice. The second year of graduate study is organized so students may specialize in direct services to individuals, families, and groups or in the planning, organization, supervision, or administration of human service programs.

Programs for Academic Excellence
The School of Social Work, through its programs of professional education, research, and public service is dedicated to the enhancement of human well-being and to the alleviation of poverty and oppression through developing and improving systems of social services, especially public social services.

The school's primary means of achieving its mission is by preparing skilled social work practitioners who are committed to practice that includes services to the poor and oppressed, by improving and developing social service programs, and by promoting professionalism in social work in Oklahoma. To this end the school offers two degree programs: the undergraduate major in social work leading to a Bachelor of Arts and a graduate program leading to a Master of Social Work. The mission and goals of the school are consistent with the goals of professional social work education and with those of the University of Oklahoma.

To achieve its mission, the School of Social Work has established the following goals:

❖ to educate skilled social workers who can effectively serve individuals, families, groups, organizations, and communities;
❖ to increase the availability of skilled social work professionals, particularly from minority groups; and
❖ to develop and strengthen social services through:
  a. scholarly activities which elaborate and explicate issues relevant to the enhancement of human well-being and the alleviation of poverty and oppression;
  b. research and evaluation activities aimed at facilitating effective practice and the generation of knowledge;
  c. consultation and leadership to emerging and existing social service programs; and
  d. continuing education and training.

Scholarship and Financial Aid
The Oklahoma Department of Human Services provides financial aid for its employees to attend school on a part-time basis. Additionally, a number
of child welfare stipends are available for non-employees as well as employees. Applications should be made in the spring semester to the school.

Two federal agencies, the Veterans’ Administration and the Bureau of Indian Affairs, administer scholarships for social work students.

The School of Social Work provides a limited number of stipends which are made available through grant funds and University scholarships. Some stipends are also awarded by practicum agencies during the semesters students are enrolled in practicum.

For further information on scholarships, stipends and loans, consult the Office of Financial Aid Services, University of Oklahoma, 731 Elm Ave., Norman, OK, 73019-2111, (405) 325-4521.

**Undergraduate Study**

The undergraduate social work program is designed to prepare social workers to assume entry-level professional roles in human and social service systems. In addition to the academic expectations, social work students are expected to demonstrate professional behavior which reflects a commitment to the ethics of the social work profession.

The role of the social worker involves helping people from a variety of backgrounds and with a range of problems, so it is important that the social work student not permit personal issues to interfere with this role and that the student have the emotional and psychological resources to render effective assistance to those in need.

Graduates of the baccalaureate program are eligible for membership in the National Association of Social Workers. They are also eligible to apply for advanced standing in the M.S.W. program at the University of Oklahoma or other graduate programs in social work. Following two years of supervised practice, they are eligible to apply for a license in the State of Oklahoma.

**ADMISSION REQUIREMENTS**

Students interested in pursuing a social work major are encouraged to contact the School no later than their sophomore year to discuss their interest in the social work major. The first step is to declare oneself as a pre-social work major with the College of Arts and Sciences. After pre-advisement from the School of Social Work, the prospective student must obtain and complete an admissions application packet. Entry into the major is through a formal admission process to the School of Social Work. The undergraduate social work curriculum is highly structured and requires no less than four semesters to complete all course requirements. No required courses are offered during the summer.

Primary consideration for admission is given to students whose applications meet the March 1 deadline. A small number of students may be admitted on a space available basis during a secondary admissions period from March 15 to July 30. Applicants will be considered during this period until all slots are full. Failure to meet the above deadlines, or to follow the above procedures, may result in denial of your application. At the time of application, students should have completed or be enrolled in the supportive prerequisite courses and be in the process of completing all General Education core courses. Admissions are limited to 40–45 students per academic year.

Before students can be admitted into the program they must file a declaration as a pre-social work major with the College of Arts and Sciences Academic Services Office. The School of Social Work will pre-advisory students before they obtain and complete the admissions application packet. More information and forms can be found on the School web site, noted above.

Students must complete the following:

1. A signed “Application for Admission”;
2. Three letters of reference; and
3. An admission statement.

Failure to meet the application deadlines or to follow the written procedures may result in delayed consideration for entry into the program. Students cannot enroll into any required social work course prior to admission to the Program. Furthermore, all students must have taken all program prerequisites prior to the junior year, first semester coursework.

Consequently, a delay in application or not having completed the above courses will result in up to two additional semesters being required beyond the usual four semesters in the program.

Acceptance into the social work program is based upon an assessment of the student’s capability to achieve academic success, the possession of a value base consistent with professional social work values and ethics, the student’s interest in and commitment to the profession of social work, and the possession of personal characteristics which will enable the student to render effective assistance to those in need.

**DEGREE REQUIREMENTS**

The undergraduate social work curriculum is highly structured and requires no less than four semesters to complete all course requirements.

In order to graduate with a major in social work, students must achieve an overall grade point average of 2.50 or above, a 2.50 grade point average or above in required social work courses (including a grade of “Satisfactory” in Practicum courses), and a C or better in all required social work courses.

The School of Social Work fully subscribes to and is guided by the NASW Code of Ethics. Social work program applicants and students are expected to demonstrate professional behavior which reflects a commitment to the ethics of the social work profession as exemplified in the Code of Ethics. Behavior and statements contrary to these ethics is cause for denial of the student’s admission or for review of continuance in the School of Social Work programs. Examples of behavior which warrant such denial or a review include, but are not limited to, derogatory oral and written statements towards other students, faculty, and/or persons from populations reflecting racial, ethnic, handicapped status, religious, socioeconomic, gender, and sexual orientation differences. Students are responsible for knowing and adhering to the NASW Code of Ethics. The most recent version can be read and downloaded from the internet through the national NASW website at [http://www.socialworkers.org/code.htm](http://www.socialworkers.org/code.htm).

The undergraduate social work program is built upon a strong liberal arts foundation that emphasizes a biopsychosocial perspective. In order to assure that social work majors have been introduced to the fundamental concepts within this perspective, they must have completed or be currently enrolled in the following course prerequisites (or course content equivalents) before making formal application to the program. Junior college transfers must complete these no later than the first semester of the junior year:

- **PSY 1113**, Elements of Psychology
- **SOC 1113**, Introduction to Sociology
- **BOT/MBIO/ZOO 1005**, Concepts in Biology or ZOO 1114, Intro. to Zoology or course content equivalent
- **5 WK 2113**, Introduction to Social Work (may be taken in the first semester)

Students who feel they have completed equivalent course content must provide course syllabi and catalog descriptions and have their work approved by the Undergraduate Coordinator.

In addition, students need to take a statistics course prior to the fall enrollment of their senior year.

Some of the above courses can be used to meet the general education requirements for the College of Arts and Sciences. For example, **5 WK 2232**, Statistics for Social Workers, will also meet the General Education Core Area I mathematics course requirement. Students planning to apply for admission are encouraged to review carefully the course prerequisites and to include them in their academic planning for the sophomore year.

Listed below are the specifically required courses for Social Work majors and the order in which they will be taken.

- **FALL**—**5 WK 3003**, 3103, 3233, 3232
- **SPRING**—**5 WK 3113**, 3243, 3313 (**5 WK 2232** is recommended)
- **FALL**—**5 WK 4083**, 4103, 4311, 4315
- **SPRING**—**5 WK 4093**, 4322, 4325

Students who have completed similar coursework from an accredited social work program may have those credit hours transferred. A copy of the previous course syllabus will be reviewed by the Undergraduate Program Coordinator for necessary action. The student is notified whether credit is approved. Students should provide these materials to their advisor as soon as possible.
PRACTICUM

The practicum is offered in collaboration with selected agencies and programs throughout the state of Oklahoma. The student is placed in a social agency under an approved supervisor for the purpose of developing professional skills and values.

The concurrent practicum takes place over a two-semester period in conjunction with classroom study during the student’s senior year. Students are in their practicum placement 20 hours each week and must complete 300 hours of practicum each semester for a total of 600 hours. Both practicum courses are graded on an S/U basis.

Practicum settings are selected on the basis of educational merit. The School makes every effort to place students in settings that are consistent with student career goals. Practicum placements may be made in selected agencies within a 50 mile radius of the Norman campus. Students are responsible for their transportation to and from the practicum setting, as well as travel connected with the placement.

Each student is required to present evidence of professional insurance coverage. Professional insurance coverage prior to placement can be arranged through the School of Social Work in collaboration with the National Association of Social Work. Information regarding the process should be secured at the School of Social Work Practicum office.

GENERAL INFORMATION

Social Work is a profession devoted to the enhancement of human well-being and to the alleviation of poverty and oppression. This is accomplished through the promotion, restoration, maintenance and enhancement of the social functioning of individuals, families, groups, organizations and communities. The expansion of human service programs and areas of practice that utilize social work knowledge and skills has created a demand for professional social workers. Social work offers a challenging and exciting career for the individual who is motivated to help others and has a personal commitment to the advancement of social justice.

The Master of Social Work degree is designed to prepare students for advanced professional practice within an organizational context. Two major professional roles dominate. The first of these is direct social work practice with individuals, families and groups. The second is focused on administration, planning or community organization. In recognition of these two distinct areas of practice, the school offers two areas of advanced concentration: direct practice and administration and community practice.

The master’s degree program in social work requires 60 credit hours. The foundation is comprised of 27 credit hours and may be completed either through the on-campus full-time program or through the school’s program of part-time studies described below. The advanced curriculum is a full-time in-residence program, with full-time status defined as enrollment in not less than nine credit hours per semester.

The school prepares practitioners who are capable of using an integrated combination of knowledge, values, and skills in service to various client and community systems. The undergraduate and the foundation requirements of the graduate program are based on a generalist model emphasizing skills, knowledge and values basic to all social work practice. The candidacy year of graduate study is organized into two graduate concentrations: direct practice and administration and community practice.

SCHOLARSHIPS AND FINANCIAL AID

The Oklahoma Department of Human Services and other state departments provide financial aid for some of their employees to attend graduate school. Federal agencies which administer scholarships for social work students are the Veterans’ Administration and the Bureau of Indian Affairs.

The School of Social Work administers a limited number of stipends which are made available through grant funds and University scholarships. Tuition waivers from the Graduate College may also be available. Some stipends are awarded by practicum agencies during the time students are enrolled in practicum.

For further information on scholarships, stipends and loans, consult the University of Oklahoma, Office of Financial Aid Services, 731 Elm Ave., Norman, OK 73019-2111.

ADMISSION

Admission to the Master of Social Work program may be granted in one of three categories:

1. full-time to the two-year, 60 credit hour program;
2. part-time to the three-year, 60 credit hour program (Two years are required to complete foundation courses as a part-time student. The candidacy year requirements must be completed in full-time status); and
3. full-time to candidacy year status, Advanced Standing (30 credit hour program) is available only to those applicants who have completed a Council on Social Work Education (CSWE) accredited baccalaureate degree program in social work within the past five years.

The full-time two-year program is completed on the Norman campus. Two different sites offer the part-time program. In Norman, students admitted to the part-time program complete their foundation courses at the College of Continuing Education and complete their candidacy year at the School of Social Work on OU’s main campus. In Tulsa, both the foundation and candidacy years are completed at OU-Tulsa. At both part-time sites, only the foundation year is part-time; the student attends full-time in the candidacy year. The Advanced Standing program is offered both in Norman and at OU-Tulsa.

Admission Criteria

Applicants for admission to the graduate program in social work must meet the following requirements:

1. Possess a bachelor’s degree from an accredited college or university.

   The applicant’s course of study must include liberal arts content which is broadly defined as coursework in the natural and social sciences, and in the arts and humanities. Though not a formal admission requirement, an introductory (undergraduate or graduate) course in statistics is a prerequisite course requirement for S WK 5293, Social Work Research. Students in the full-time (60-hour) program take research and, thus, must complete statistics prior to beginning their graduate program. The precise scheduling of research varies for students in the part-time (60-hour) programs in Norman and Tulsa, but it is typically offered in the first year.

   Students in these programs are strongly advised to complete statistics prior to beginning their program. (Students in the Advanced Standing (30-hour) program do not take S WK 5293, so the statistics requirement does not apply to them).

   Typically, the school will be able to determine if the above coursework has been completed by a review of the transcript. Supplementing this review, each student completes an admission form provided by the school that indicates how this prerequisite work has been (or will be) satisfied.

2. Meet all the general admission requirements of the Graduate College. The Graduate College reviews all previous coursework as listed on the applicant’s official transcripts which are submitted to the University of Oklahoma’s Office of Admissions and Records. The Graduate College requires that all students admitted to graduate programs on non-provisional (non-conditional) basis have a grade point average (GPA) of 3.0 or above.

   The Graduate College calculates the GPA based upon the last 60 semester credit hours of letter-graded coursework for applicants with no post baccalaureate coursework. Should the 60 credit hours fall within a semester’s work, then that whole semester is included in calculating the grade point average. Any applicant who has received a master’s degree or has completed 12 semester credit hours of letter-graded graduate work at an accredited college or university will have the GPA based on the graduate coursework. Students whose GPA is between 2.75 and 2.99 may be considered for a conditional status admission by the Graduate College and the School of Social Work. Students admitted on a conditional basis must meet requirements specified by the Graduate College and the School.

   These requirements will be specified at the time of admission. The Graduate College will not refer to the School any application where the GPA in the last 60 hours is less than 2.75.
In addition to making formal application for admission through the Office of Admissions, each applicant must also submit the following items to the School of Social Work:

1. Admission cover sheet.
2. Admission statement.

If English is not their primary language, international students must take the TOEFL (Test of English as a Foreign Language) and submit their score to the school and to the Graduate College. Preference in admission decisions is given to those applications for which all materials are received by the school by March 1 (by the first working day thereafter should March 1 fall on a weekend).

**TIME LIMIT AND READMISSION**

All students must complete the degree requirements within a four calendar-year period from the time of first admission. A student who has successfully completed the first year or any part of the program in the school and withdraws for any reason must reapply to the Office of Admissions and Records of the University and to the school. The student is subject to the regulations applicable during his/her first term of enrollment so long as continuous enrollments are maintained. A student who interrupts enrollment for one year or more and is readmitted will then be subject to the regulations in effect at the time of readmission. If readmitted to the program, all previous required coursework must have been completed within the four calendar-year period or the coursework must be retaken. The four year requirement also applies to Advanced Standing students.

**TRANSFER CREDIT**

The school will accept up to six hours of credit from another college or university or a full first year from a school of social work accredited by the Council on Social Work Education (for coursework consistent with the School’s first-year curriculum). This action is contingent upon the approval of the Director of the School and the Dean of the Graduate College.

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### Department of Sociology

_Craig St. John, Chair_  
_Susan Sharp, Graduate Liaison_  
_Kaufman Hall, Room 331_  
_Norman, OK 73019-2033_  
_Phone: (405) 325-1751_  
_FAX: (405) 325-7825_  
_Internet: [http://www.ou.edu/soc/](http://www.ou.edu/soc/)_

### Faculty Roster

Professors Grasmick, St. John, W. Scott; Associate Professors Burns, Damphouse, C. Morgan, S. Sharp; Assistant Professors Bass, Beutel, T. Hope, Kelley; Lecturers W. Clay, Franzese, Hackney.

### Degrees Offered

- **Bachelor of Arts**
- **Master of Arts**
- **Doctor of Philosophy**

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. Additional information on graduate programs is available from the Graduate College and their website at [http://gradweb.ou.edu/](http://gradweb.ou.edu/), or the departmental website at [www.ou.edu/soc/](http://www.ou.edu/soc/). This information is updated yearly and should be referred to for graduate program requirements.

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### General Information

The Department of Sociology has two interrelated missions: to provide the highest quality education at the baccalaureate, master’s, and doctoral levels, and to foster state-of-the-art research agendas among faculty and graduate students. Teaching and research in the department help meet the needs of the state and nation by addressing important social issues. Departmental programs focus on three areas: (1) criminology, (2) demography and family studies, and (3) the analysis of class, race, and gender. At both the undergraduate and graduate levels, coursework in Sociology provides an analytic research emphasis for studying, understanding, and explaining major issues. Research in these areas updates and refines knowledge and, further, helps formulate and evaluate social policy.

The undergraduate curriculum in sociology prepares students for jobs in a wide-variety of occupations and for admission to advanced degree programs, especially in sociology, law, and criminal justice. The graduate program provides more intensive instruction and stimulates further intellectual growth and maturity. Graduate students completing a degree in sociology typically find employment in academic settings as professors and researchers, and in the public or private sectors as statistical analysts and research coordinators. The quality of the programs in sociology can be measured by the successful placement of our graduates in agencies, corporations, graduate and professional programs, research settings, and colleges and universities.

A major strength of the department’s graduate program is its training in research methods and statistics. The department maintains its own computer lab equipped with advanced statistical package software. Core seminars in statistics and methods encourage participation in all phases of research, from research design to data collection and analysis to the presentation of findings. Strength in this area complements coursework in the department’s three substantive areas of interest, and encourages students to be independent researchers and informed teachers. The department’s graduate students regularly present research papers at professional meetings, and have been very successful in winning competitions with these papers.

### Undergraduate Study

The undergraduate major requires a minimum of 33 semester hours. All majors are required to take 1113 (Introduction to Sociology), 3123 (Social Statistics), and 3133 (Methods of Social Research). Students in the sociology program may choose an option in either general sociology or criminology. Students completing either option receive the B.A. degree in Sociology.

#### GENERAL SOCIOLOGY OPTION

Students in this option take any five of the eleven courses listed below plus the capstone course: 3523, 3553, 3623, 3643, 3683, 3723, 3733, 3753, 3803, 3873, 4363. General Sociology Capstone – 4943.

#### CRIMINOLOGY OPTION

Students in this option take all of the following courses: 3523, 3533, 3543, 3553, 4603. Criminology Capstone – 4843.

Six hours of electives in sociology are required for students in both options. Those in the General Sociology option may select any course(s) listed below or in the Criminology option except Internship in Criminology. Those in the Criminology option may select any course(s) listed below or in the General Sociology option.

Irregularly offered elective courses include 1523, 3713, 3813, 3833, 3843, 3883, 3900, 4163, 4263.

Students considering a major in Sociology should contact the department for assistance in selecting courses which contribute to the student’s educational and career plans. Students who intend to pursue careers in social agencies, corporations, or research settings will be advised regarding courses most appropriate to those interests. Students wishing to enroll in graduate or professional school will be advised regarding courses normally prerequisite to such work.
MINORS IN SOCIOLOGY
Nonmajors may earn a minor in sociology by completing 18 hours, consisting of 1113; and any four courses from the following: 1523, 3523, 3533, 3623, 3643, 3723, 3733, 3803, 3873, and 4363; and one additional 3000- or 4000-level course in sociology; excluding directed readings, independent study internships, courses, and independent Study courses offered through Continuing Education.

Graduate Study

The M.A. and Ph.D. programs in sociology emphasize the learning of research methods and statistics in conjunction with chosen substantive area(s) of interest. The department offers six different courses in which graduate students develop research skills. At the doctoral level, students may choose to specialize in any two areas from the three areas of emphasis in the department.

ADMISSION REQUIREMENTS
In addition to meeting the general requirements of the Graduate College, the student must have completed at least 15 hours of coursework in one of the social sciences with sufficient achievement to indicate an ability to do graduate work. Preferably, this would include coursework in sociological theory, research methods and statistics; students lacking a background in these areas will be provided with help in making up these deficiencies.

Students will be considered qualified for full graduate standing in the Ph.D. program when they have completed the M.A. degree and have held an Advisory Conference. Students from the University of Oklahoma are expected to fulfill all requirements for the pre-doctoral M.A.

To be considered for financial aid a student must submit all necessary material by March 1.

Master of Arts Degree
There are two programs leading to the M.A. degree in sociology, the 34-hour predoctoral M.A. which requires a thesis; and the 39 hour nonthesis M.A.

The following core coursework is required in both programs: Advanced Methods of Social Research (5293), Advanced Sociological Statistics (5283), Seminar in Sociological Theory (5913), and Advanced Sociological Statistics II (6233).

In addition to the core courses, completion of the 34-hour thesis M.A. entails 18 hours of elective coursework and four hours of thesis credit. Among the 18 hours of electives, 12 must be courses from the Department of Sociology at the 5000-level or above. The remaining six hours of electives may be Directed Readings (5960), 4000-level courses in Sociology, or crosslisted courses housed outside the Department or courses in another department.

In addition to the core courses, the 39-hour nonthesis M.A. requires 27 hours of elective coursework and a comprehensive oral examination. Among the 27 hours of electives, 15 must be courses housed in the Department of Sociology at the 5000-level or above. Among the remaining 12 hours, no more than two may be Directed Readings (5960), no more than three may be crosslisted courses housed outside the department and no more than six may be 4000-level courses in the department.

With the approval of the student’s advisor and the graduate committee, limitations on directed readings, courses outside the department and 4000-level sociology courses may be modified. Under no condition, however, will a student be permitted to apply more than six hours of 4000-level sociology courses toward an M.A. or more than three hours of directed readings toward an M.A.

Doctor of Philosophy
With few exceptions, students seeking this degree anticipate a career in teaching and/or research. Departmental requirements, therefore, emphasize (1) professional competence in sociology as a whole, especially research methodology, and (2) expertise in two fields within sociology. In preparing for the Ph.D., the student should acquire a broad knowledge of the fundamentals of sociology and then a focused specialization in chosen areas of interest.

For the Ph.D. degree, the student must pass a general examination, write a doctoral dissertation, and, in so doing, complete 90 hours of graduate coursework. The purpose of the coursework is to prepare the student for the general examination and dissertation. Hence, the accumulation of coursework, in and of itself, does not constitute progress toward the degree. Therefore, students normally meet with an advisory committee during the first year in residence to establish a plan of study.

A plan of study, filed formally with the Dean of the Graduate College, should develop the student’s knowledge of and expertise in sociology broadly defined in any two areas selected from the three areas of emphasis in the department. The plan of study must include the core requirements for the pre-doctoral M.A. and at least one additional advanced course in both theory and methodology/statistics. A maximum of 44 course hours may be transferred from other universities with the permission of the student’s Advisory Committee and the Dean of the Graduate College. In any event, the plan must contain sufficient coursework to adequately prepare the student for the general examination.

The general examination in sociology consists of written components and an oral defense. It usually is taken sometime after the second or third year of study. Failure to pass the examination leads to dismissal from the program. Formal work on the dissertation may begin after the student has successfully passed the examination.

The doctoral dissertation is written and defended under the guidance of the student’s doctoral committee consisting of five members of the graduate faculty, at least one of whom is from outside the Department of Sociology. A maximum of 18 hours may be applied to the dissertation.

Ph.D. students having sole responsibility for teaching a course in the Department also are required to take Teaching Seminars I and II (5831 and 5841) for one credit each. However, these credits may not be applied toward a graduate degree.

Women’s Studies
Betty J. Harris, Associate Professor of Anthropology, Director

Physical Sciences Center, Room 528
Norman, OK 73019-3105
Phone: (405) 325-3481
FAX: (405) 325-3573
Internet: http://www.ou.edu/womstudy/

Degree Offered
• Bachelor of Arts
The Women’s Studies Program is an interdisciplinary program that offers a core curriculum supplemented by the contributions of full status and affiliate faculty, relevant courses, and other resources from many University colleges and departments. Courses required for the major fall into the following categories: history and culture of women; literature, art and communication; and women in contemporary society. Science and international components are being expanded. Course listings are available in the Women’s Studies office each semester.

Scholarships and Financial Aid
The Hillyer Award (with cash award attached) will be granted annually to an outstanding undergraduate in a Women’s Studies course who has done exceptional written or creative work.

The Bette Baum Hirschfield and Norman Hirschfield Award is now permanently endowed. Three scholarships of $3,500 are awarded
annually, to single mothers returning to school. At the time of the application, the candidate must have, within the past five years completed, the equivalent or at least two semesters of full-time study (30 hours), with a B average or better, and attend the University of Oklahoma, Norman. The Judith Lewis Award (with cash award attached) will be granted to an outstanding Women’s Studies graduate. The successful candidate must have a GPA of 3.2 or better and been involved in campus activities, particularly those pertaining to women’s issues.

Undergraduate Study

Students may major in Women’s Studies in the College of Arts and Sciences. The Women’s Studies faculty has approved 36 hours of coursework including the following: Introduction to Women’s Studies; a minimum of three hours in each of the categories History and Culture, Literature, Art, Communication, and Contemporary Social Problems; Method and Theory in Women’s Studies; a senior seminar; a senior thesis or internship, and a three-hour elective.

MINOR
Four minors are offered in Women’s Studies: Women’s Studies, Women of Color, Women’s Health, and Gender Studies. Each of these minors requires special departmental approval, and students must complete 18 hours of courses, including Introduction to Women’s Studies. Additional courses must be selected from categories specified within each of the minor areas as follows:

- The Women's Studies minor requires six hours in Women in History/Culture; three hours in Women in Literature, Art, and Communication; three hours in Women in Society/Contemporary Social Problems; and a Senior Requirement.
- The Women of Color minor requires three hours in Women in History/Culture; three hours in Women in Literature, Art, and Communication; three hours in Women in Society/Contemporary Social Problems; three hours in Feminist Theory; and a Senior Internship.
- The Women's Health minor requires six hours in Women and Social Scientific Theory; three hours in Research Methods; three hours in Feminist Theory; and a Senior Internship.
- The Gender Studies minor requires three hours in Gender in History and Culture; three hours in Gender in Literature, Art, and Communication; three hours in Gender in Society/Contemporary Social Problems; three hours in Feminist Theory; and a Senior Internship. Interested students should contact the Women’s Studies office for current class listings and advisement.

Graduate Study

Several graduate courses are offered each year in Women’s Studies. However, in order to pursue graduate study in Women’s Studies, a graduate student must be accepted into a department and design an interdisciplinary degree program in accordance with Graduate College guidelines. Women’s Studies faculty will assist students with program design.

Courses in Women’s Studies

Most Women’s Studies courses are offered through a variety of departments. However, there is a Women’s Studies designator (WS) for the following courses: 1120, 1220, 2003, 2021, 2120, 3220, 3960, 3980, 4003, 4013, 4120, 4123, 4913, 4970, and 5120. Students should consult the Women’s Studies Office for assistance in course selection.

Department of Zoology

William J. Matthews, Chair
Joseph A. Bastian, Director of Graduate Studies
James N. Thompson, Jr., Director of Undergraduate Studies

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Norman, OK 73019-6121
Phone: (405) 325-4821
FAX: (405) 325-7560
Internet: http://www.ou.edu/cas/zooology/

Faculty Roster


Degrees Offered

- Bachelor of Science
- Bachelor of Science in Zoology (Biomedical Sciences)
- Master of Science
- Master of Natural Science
- Doctor of Philosophy

Information on both undergraduate and graduate programs is included. However, the general information contained in this section mainly covers undergraduate study. For additional information on graduate programs, individual documents detailing each graduate program are available from the Graduate College and their website at http://gradweb.ou.edu/. This information is updated yearly and should be referred to for graduate program requirements.

General Information

The program in Zoology began soon after the University of Oklahoma was founded, and the first Ph.D. degree awarded by OU was in Zoology. The graduate program now has internationally-recognized strengths in selected areas of ecology/systematics, animal behavior, neurosciences, physiology, and genetics/cell biology. Research and training facilities at the OU Biological Station, the Sam Noble Oklahoma Museum of Natural History, the Oklahoma Biological Survey, and the Noble Electron Microscope Facility enhance the research opportunities for faculty and graduate students.

The Department of Zoology takes special pride in its teaching at both the graduate and undergraduate levels. Courses at the undergraduate level, for example, provide a broad foundation in biology and allow students to pursue selected areas of interest in depth through research participation and advanced studies courses.

Zoology is one of the most popular majors for students interested in a health professions career, and the curriculum provides an excellent base of preparation for a wide variety of careers or for postgraduate study. The department encourages participation in the Honors College, the Zoological Society, and other opportunities for individualized educational enhancement.

Programs for Academic Excellence

The Zoology Department is actively involved in the Honors Program, and many undergraduate students carry out independent research projects under the guidance of faculty members with national and international reputations.
in their fields. The Zoological Society, the Premed Club, the PreVet Club, and the American Medical Student Association are sponsored by Zoology faculty members and allow students with common interests to take field trips and hear talks about career planning and other important topics. The Zoology Aid Program (ZAP) is composed of undergraduate students who volunteer to tutor other students in Introductory Zoology. It is a rewarding experience for both the ZAP volunteers and those with whom they work.

The Loren G. Hill Zoology Excellence Fund provides support for graduate student travel to national research conferences. The Zoology Association of Graduate Students works closely with the faculty to organize the weekly seminar program of visiting scholars and other educational enrichment opportunities.

Internationally-known research groups in aquatic ecology, animal behavior, vertebrate biology, neurophysiology, and other specialties strengthen the general areas of emphasis in the graduate program.

RESEARCH OPPORTUNITIES

Students can participate in research with Zoology faculty in a number of ways, such as Independent Study courses and Honors Research courses both at the undergraduate and graduate level.

Special Facilities and Programs

The Zoology Department is housed in Richards and Sutton Halls, which contain faculty and graduate student offices, research and teaching laboratories, maintenance shops, the departmental stockroom, graphics and photography workrooms, and computer rooms. Support staff including academic advisers, an audiovisual technician, a computer specialist and a shop supervisor are available to assist students. Teaching and research opportunities are provided for students at the following locations.

**ZOOLOGY ANIMAL FACILITY**

This facility contains breeding colonies of rodents and provides housing for a variety of other small mammals, amphibians, and reptiles.

**TISSUE CULTURE LABORATORY**

This lab provides facilities for in vitro culture of vertebrate cells and tissues and for the production of monoclonal antibodies.

**BIOLOGICAL STATION AND OTHER RESEARCH UNITS**

The University of Oklahoma Biological Station, located on Lake Texoma, an impoundment of the Red River on the Oklahoma-Texas border, is a permanent year-round field station with a resident staff of research scientists that provides year-round facilities for faculty and students. A summer session with approximately ten courses is attended by undergraduate and graduate students from throughout the country.

Students also use the facilities of the S. R. Noble Laboratory of Electron Microscopy, the Sam Noble Oklahoma Museum of Natural History, and the Oklahoma Biological Survey.

**AQUATIC RESEARCH FACILITY**

This facility, located on the University South Campus, includes two greenhouses and 32 experimental ponds for faculty and student research and teaching.

**ANIMAL BEHAVIOR LABORATORY**

A laboratory devoted to animal behavior and ecological studies, this facility provides indoor space and outdoor enclosures for the study of a wide variety of animals.

**OLIVER WILDLIFE PRESERVE**

This wilderness area of 80 acres, situated just two miles south of the main campus, provides a natural laboratory for studies in ecology, natural history, and behavior.

Scholarships and Financial Aid

**M. BLANCHE AND M. FRANCES ADAMS SCHOLARSHIP**

The department awards scholarships of up to $3,000 to undergraduate or graduate students majoring in Zoology, based on nominations, merit, and financial need.

**GEORGE MIKSCH SUTTON SCHOLARSHIP**

Scholarships in the amount of $500 to $2,000 or more are awarded to undergraduate and graduate students in the field of Ornithology. Selection is based on merit and financial need.

For more information on these scholarships, contact the Department of Zoology or the Office of Financial Aid Services.

Teaching and research assistantships which provide a stipend and waive the out-of-state tuition, are also available. Contact the Department of Zoology at 314 Richards Hall, 730 Van Vleet Oval, Norman, OK 73019-6121.

Undergraduate Study

The zoology major program is designed to meet the needs of students who plan to enter graduate school in the biological sciences, to enter medical, dental, or veterinary college, or to work in specialized paramedical fields, environmental programs, or other careers in which zoology would serve as an academic background. The department strongly recommends that each student work closely with his or her adviser on a regular basis since all courses are not offered every semester. Each major or prospective major should work closely with the zoology advisory office on a regular basis to plan a program which will meet career goals. The advisory office can furnish information on courses, curricula and careers available to majors and will facilitate the assignment of a faculty adviser.

Zoology majors may work also for the standard secondary teaching certificate in science. For information consult an academic adviser in the Office of Student Academic Services.

The Department of Zoology has an honors program which involves original research and the writing of an honors thesis. Qualified students should consult the zoology advisory office for details.

The department offers undergraduate majors an opportunity to participate in undergraduate teaching or faculty research programs. The zoology advisory office will provide information and arrange for such participation.

The zoology major must complete 30 hours of major coursework (exclusive of Zoology 1114 and 1121), with at least 15 of these hours at the upper-division level. A grade of C or better must be earned in each course.

The following courses may not be counted as major work in zoology: Zoology 1005, 1114, 1121, 1203, 2124, 2255, 2343 and 3823.

**BACHELOR OF SCIENCE**

The standard Bachelor of Science degree is intended for students who want the flexibility afforded by a broad set of requirements.

Majors in zoology must take the following courses in zoology: 1114, 1121, 2094 or 2204, 3013, and 3333. At least one course must be taken from each of the following groups:

- Populations—3083, 3403;
- Organismal—3103, 3203;
- Cellular—3113, 4843.

In addition, at least one 4000- or 5000-level course not in the core must be completed. Two upper-division courses with laboratories must be included in the major work. At least one field course and participation in the summer program of the Biological Station, Lake Texoma, are strongly recommended.

Geology 3513 may be counted as major work in zoology.
The fundamental areas of zoology are available for advanced degree programs. Such areas include animal behavior, cellular developmental and genetic biology, ecology and systematic biology, physiology, neuroscience, fisheries biology, vertebrate paleontology, vertebrate and invertebrate biology. Detailed information may be obtained from the Chair of the Graduate Selections Committee, Department of Zoology, Richards Hall, University of Oklahoma, Norman, OK 73019-6121.

ADMISSION REQUIREMENTS

Applicants for admission must submit a Report of Scores on the Graduate Record Examination Aptitude Test in addition to the other credentials required by the Graduate College. The advanced subject test is strongly recommended. Prospective students may obtain information about times and places for the examination from the University Counseling and Testing Services, University of Oklahoma, or from the Educational Testing Service, Box 955, Princeton, New Jersey 08540. Deadline for completed applications is January 15, but later applicants can be considered if openings are available. Students whose native language is not English must submit scores on the Test of English as a Foreign Language and the Test of Spoken English.

PREREQUISITES FOR FULL GRADUATE STANDING

The student must meet the general requirements stated in the graduate section of this catalog, and must present at least 24 semester hours of credit in biological science. The student must have completed: one course in calculus (equivalent of Mathematics 1823 or 1743); one year of college physics (equivalent of Physics 2414, 2424 or 2514, 2524); and organic chemistry (equivalent of Chemistry 3012 and 3013 or 3053, 3152, and 3153). Courses needed to fulfill requirements of full graduate standing cannot be taken on a pass-no pass system of grading and should be completed within two semesters. During the week prior to enrollment in the first semester of graduate work each student takes an Advisory Examination which will cover the major fields of zoology (anatomy/physiology, genetics/evolution, ecology/behavior, and cell biology/development). Results of the advisory examination are used to evaluate the student’s background in zoology.

During the first academic year of graduate work, the student must have completed all requirements for full graduate standing and must have made an agreement with a faculty member to serve as major professor.

A student working toward an advanced degree must do so upon a background of knowledge which covers the basic principles of zoology. A student in a graduate degree program must complete a course in professional aspects of biology (Zoology 6012), and a course in biostatistics (Zoology 4913 or equivalent). An introduction to biochemistry is strongly recommended (Chemistry 3653, or Chemistry 5753 or equivalent), as is a course in evolution (Zoology 3013 or equivalent). Graduate programs are arranged in conference with an advisory committee.

Summer study at acceptable biological stations or research laboratories or as a member of an approved field research party is strongly recommended. Graduate credit may be given for this work. The University of Oklahoma maintains a biological station at Lake Texoma, and graduate courses are offered there each summer.

Degree Requirements

MASTER OF SCIENCE DEGREE

A student must meet the general requirements for the master’s degree as stated in the Graduate Bulletin. A student may complete a minor in a relevant field or achieve an advanced level in at least one field in support of the special field of interest.

The Department of Zoology requires the completion of a thesis. The degree program consists of at least 30 hours, of which six may be credited toward research. The comprehensive examination over all of the work offered for the degree, including the thesis, is oral.

MASTER OF NATURAL SCIENCE DEGREE

Students interested in teaching science in the secondary schools are referred to the degree of Master of Natural Science. Zoology is one of the fields which may be used to meet requirements of this degree.

DOCTOR OF PHILOSOPHY DEGREE

Work leading to the Ph.D. degree is offered in certain fields. Detailed information may be obtained from the Chair of the Graduate Selections Committee of the department. Doctoral programs are individually planned by the student’s advisory conference. Minimal requirements that apply to all doctoral programs are the attainment of an advanced level of achievement in a special field of interest and at least two supporting fields. Research skills are approved by the student’s advisory conference.

Graduate Study

AREAS OF SPECIALIZATION

- Cellular—3113, 4843.
- Organismal—3103, 3203;
- Populations—3013, 3083, 3403;
- Cellular—3113, 4843.

In addition, at least one 4000- or 5000-level course not in the core must be completed. Two upper-division courses with laboratories must be included in the major work.

The following courses in related sciences are also required: Chemistry 1315, 1415, 3053, 3152, 3153, and 3653; Mathematics 1743 or 1823; Physics 1311, 1321, 2414, and 2424; Botany 1114 or Microbiology 2815 or 3813; and one approved course in the history of ethics of science or medicine (e.g., HSCI 3013 or 3023 or appropriate HON 3993). A computer science course and a statistics course are strongly recommended.

MINOR

A minor requires a minimum grade of C in 20 hours of courses, including Zoology 1114, 1121, nine upper-division hours, and at least two laboratory courses beyond 1121.

Minors may substitute Human Anatomy (2255) for Comparative Anatomy (2204) or Human Physiology (2124) for Principles of Physiology (3103). ZOO 2124, however, will not count toward upper-division credit.
Michael F. Price College of Business

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Norman, OK 73019-4007

Phone: (405) 325-3611
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Internet: http://price.ou.edu

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Administrative Officers
Dennis E. Logue, Ph.D., Dean and Fred. E. Brown Chair
Gary W. Emery, Ph.D., Senior Associate Dean, Academics and Administration
Robert C. Dauffenbach, Ph.D., Associate Dean, Research and Graduate Programs and Director, Center for Economic and Management Research
Jack J. Kasulis, Ph.D., Associate Dean for Undergraduate Programs
Andrew D. Cuccia, Ph.D., Director, Master of Accountancy Program
Gina Amundson, B.S., Director, Graduate Programs
Charlene M. Streller, M.Ed., Director, Undergraduate Programs
Linda L. Berry, M.B.A., Manager of Administration and Operations, Director, Executive Programs
Loren “Buddy” Ellis, B.B.A., Executive Director of Development
Melvin L. Penn III, M.B.A., Corporate and External Relations Executive

D. Brooks McMullan, M.Ed., Director, Leadership Program
David W. Williams, M.H.R., Director, Business Communications Center
Lori M. Brooks, B.A., Director of Communications
Mary J. Stephens, Assistant to the Dean and Alumni and Special Events Coordinator
James M. Wheeler, B.B.A., Assistant Director of Development
Shaila Miranda, Ph.D., Director, M.S. in Management Information Systems

Faculty Roster
SCHOOL OF ACCOUNTING
Adams Hall, Room 200
(405) 325-4221
Frances Ayres, Director
Professors Ayres, M. Knapp, M. Lipe, Willinger; Associate Professors T. Crain, Cuccia, Ghosh, R. Lipe; Assistant Professors Jensen, Magro, Payne, Thomas.
DIVISION OF FINANCE
Adams Hall, Room 205
(405) 325-5591
Scott C. Linn, Director
Professors Ederington, Emery, Linn, Logue, Megginson, Stock; Associate Professors Fernando, Horrell, Stanhouse; Assistant Professor Portniaguina.

DIVISION OF MANAGEMENT
Adams Hall, Room 206
(405) 325-2651
Michael Buckley, Director
Professors Barman, Buckley, Driver, Hoskisson, Johnson, Michaelsen, Ralston, C. Russell, Tersine, Whitely; Associate Professors Busenitz, Sharman; Assistant Professors Cogiser, Tihanyi.

DIVISION OF MANAGEMENT
INFORMATION SYSTEMS
Adams Hall, Room 307E
(405) 325-0768
Robert Zmud, Director
Professors Daufenbach, Van Horn, Zmud; Associate Professors Chidambaram, Miranda, Price, Schwarzkopf; Assistant Professors Carte, Carter, Jasperson, Shaf, Sharma.

DIVISION OF MARKETING AND SUPPLY CHAIN MANAGEMENT
Adams Hall, Room 1
(405) 325-3561
Patricia J. Daugherty, Director
Professors Daugherty, E. R. Evans, O斯塔s, Razook; Associate Professors Kasulis, Kenderdine, Min; Assistant Professors Landry, Roath.

UNDERGRADUATE PROGRAMS
Adams Hall, Room 105
(405) 325-6021
Charlene M. Streller, Director, Undergraduate Programs
Mary Aldridge, Academic Counselor
Dalynda M. Evans, Academic Counselor
Jodi Hubbel, Academic Counselor
Jim Smith, Senior Academic Counselor

GRADUATE PROGRAMS
Adams Hall, Room 105K
(405) 325-4107
Gina Amundson, Director, Graduate Programs
Jennifer Moore, Staff Assistant

Degrees Offered
• Bachelor of Business Administration
• Joint Bachelor of Business Administration with a Major in Accounting and Master of Accountancy
• Master of Accountancy
• Master of Business Administration
• Master of Science in Management Information Systems
• Juris Doctor/Master of Business Administration
• Doctor of Philosophy

General Information

HISTORY
A curriculum in business subjects was first offered in 1913 through a subordinate school in the College of Arts and Sciences called the School of Commerce and Industry. The first certificates in commerce and industry were granted in 1915. The name was changed to the School of Public and Private Business in 1917. In June 1923, the Board of Regents established a school of business as a separate two-year school of the University and authorized it to confer the degree of Bachelor of Science in Business. The first Bachelor of Science in Business degrees were conferred in 1924. The following year the School of Business was admitted to membership in the Association to Advance Collegiate Schools of Business (AACSB International), the international accrediting agency for bachelor’s and master’s degrees in business. To earn and retain accreditation, these degree programs must undergo a rigorous initial evaluation and be reevaluated periodically. These programs of the college have been fully accredited since 1926. In addition, programs leading to bachelor’s and master’s degrees in accounting have met separate AACSB International accreditation standards specifically for accounting programs.

In 1929, the Board of Regents changed the School of Business to the College of Business Administration.

In 1997, alumnus Michael F. Price announced a contribution of $18 million to the College of Business. The OU Regents officially renamed the College of Business Administration the Michael F. Price College of Business. The Price funds are applied strategically to areas of excellence. This endowment has established endowed faculty positions, a library endowment, scholarships and graduate assistantships, a student support center, and provides support for a number of other initiatives.

MISSION
The mission of the college is “To foster the discovery and transmission of knowledge about the creation, functioning, management, and continuing adaptation of organizations in a changing global business environment.” Our graduates will grasp opportunities to see how separate pieces of a business puzzle are brought together to create a new business or industry. Conceptual thinking and real-world training allow them to solve complex problems within a business or industry.

The college’s Strategy for Excellence integrated with that of the University helps the college attain its goals of enhanced excellence and contributions to the economy of the state, nation and the world.

OBJECTIVES
To further its mission, the college provides degree programs at the baccalaureate, master’s and doctoral levels, with the objective of providing career opportunities in a wide variety of professional and entrepreneurial roles. While most graduates will find employment in the private sector, a Michael F. Price College of Business education will provide a general understanding of, and appreciation for, managerial processes that apply in public sector and not-for-profit institutions as well.

In addition to technical competence in areas of specialty, the college expects graduates to attain a level of understanding of, and appreciation for, the liberal arts and the social sciences. The aim is to provide an educational base upon which the graduate can build not only technical but also social capability through a lifetime of continuing growth and development. The emphasis is as much on the formation of attitudes and understanding of complex issues as on the attainment of knowledge and skills.

Since formal education may tend to become abstracted from the realities of practice, the college seeks to maintain close ties with the professional communities it serves. Internship opportunities for students, participation by practicing professional managers in the classroom, consulting and research by faculty, boards of advisers to the college, conferences and the like involving people from outside the University provide opportunities for continuing interaction with the world of organizations.
While maintaining a practical, relevant perspective, the faculty seeks to advance the frontiers of knowledge through research, both applied and theoretical. This research is fundamental to the overall excellence of the teaching function. Students at all levels may expect to be exposed not only to well-established knowledge, but also to ideas and issues that are at the forefront of research and experimentation.

As a complement to degree programs, the college includes continuing education and managerial development programs for practicing professionals. Throughout the wide variety of educational programs and in its research and public service objectives, the college strives to maintain standards of excellence consistent with the University’s role as one of the leading institutions of higher education in the nation.

Programs for Academic Excellence

SCHOOL OF ACCOUNTING

The School of Accounting is among a limited number of schools nationwide and the first one in Oklahoma to qualify for accounting accreditation from the Association to Advance Collegiate Schools of Business. The evaluation focused on student quality, faculty professional experience and research productivity, academic curriculum and program-support facilities.

The faculty of the school possess impressive credentials. Their academic backgrounds come from leading universities in the country. The faculty members have established strong records of research and professional publication. Some are consultants to major corporations, authors of textbooks and leaders in professional accounting associations.

The School of Accounting curriculum includes courses in financial accounting, cost accounting, taxation, auditing, and accounting information systems. Graduates are recruited by national and regional firms for challenging and rewarding careers in public accounting and business firms; others secure accounting positions in government.

DIVISION OF FINANCE

The Division of Finance offers required and elective courses that enable students to specialize in corporate finance, investments, and banking. Additionally, students may take courses that lead to careers in financial planning and real estate.

The finance faculty features individuals trained at some of the nation’s premier business schools. Three professors hold endowed chairs, while two hold endowed professorships. The finance faculty has won numerous Price College and University teaching awards. A recent survey rated the faculty as one of the most productive finance research groups among public universities.

The division offers a strong listing of courses, including the Student Investment Fund where the class manages an all equity portfolio valued at roughly $250,000. A separate but related experience known as the Fixed Income Fund class is also offered each semester. A very strong banking intern program is offered by the division wherein students receive credit for working in Oklahoma banks during the summer. The student chapter of the Financial Management Association has repeatedly won national awards as an outstanding club.

DIVISION OF MANAGEMENT

The Division of Management offers career path opportunities for students in the areas of human resource management, entrepreneurship, international management, production/operations management or a more general series of courses encompassing all of these. The division also offers specialization in energy management.

The outstanding faculty are active in research and have published nationally in leading academic and practitioner-oriented journals. In addition, many of them have had practical work experience in their fields and bring to the classroom an application-oriented approach. A large number of national, university, college and student-sponsored teaching awards have been presented to members of the Management Division faculty to recognize instructional excellence.

The division sponsors student organizations designed to complement the various areas of study. These organizations offer opportunities for students to meet and learn from practicing professionals, develop a network of contacts, gain insight into career opportunities and interact with their peers in a meaningful and helpful environment.

DIVISION OF MANAGEMENT INFORMATION SYSTEMS

The Management Information Systems Division provides MIS majors and minors with information management and technology knowledge, experiences and tools for the effective design and use of computer-based information systems in global organizations. The goal is to provide students with an initial and long-term comparative advantage as information system professionals by immersion in a balanced set of theory and applied areas. The MIS undergraduate program, one of the largest in the U.S., produces graduates who understand and can apply MIS concepts, tools, methods in such areas as data structures, system architecture, telecommunications, programming, and systems analysis and design. MIS graduates understand the strategic role of information systems and how they can add value to functional areas and to a total organization. All students carry out an actual system design project in a company or other organization using state-of-the-art design tools.

The faculty of the MIS Division excels at both teaching and research. Two faculty members hold endowed chairs or professorships recognizing their international contributions to and reputations in the MIS field. Faculty members in the division have received a number of teaching awards and take pride in their extensive contact with students and the continuous innovation in their courses. Members of the faculty also bring many years of experience as senior managers and IS professionals. Faculty members hold doctoral degrees from such leading institutions in information systems and technology as Carnegie-Mellon, Florida State and the University of Arizona.

The student chapter of the Association of Information Technology Professionals (AITP) at the university ranks as one of the largest and most active in the country. Through AITP, students receive the opportunity to meet and talk with the chief information officers of major companies and other leading IS professionals. Many students spend one or more summers in well-paid internship positions. More than 100 companies recruited MIS graduates from the University last year.

DIVISION OF MARKETING AND SUPPLY CHAIN MANAGEMENT

The Division of Marketing and Supply Chain Management offers courses that prepare students for decision-making involving the identification of consumer and business needs. Classes provide comprehensive coverage of topics including product/service design, development, and commercialization; pricing of products and services; and promotion through advertising sales promotion, and personal selling. Primary emphasis is placed on distribution of products/services including channel structure and physical delivery/logistics.

The division faculty have a national reputation for expertise in distribution-related issues and strategy. All have academic credentials from leading U.S. schools, and many have significant business experience. The division faculty have a strong record of publication and research and use this knowledge in the classroom and as consultants to corporations.

Members have been elected to prominent leadership positions in professional associations.

Students will find a wide range of opportunities to interact with successful business executives, both formally in the classroom, and informally, through professional student organizations.

BUSINESS COMMUNICATION CENTER

The Business Communication Center prepares students for the technology-delivered world. With one-on-one instruction from the center’s friendly staff, Price College students learn valuable hands-on skills such as multimedia presentations, Web page design, video conferencing, public speaking, and digital imaging.
FIXED INCOME FUND
The Fixed Income Fund experience exposes senior-level undergraduate students and MBA students to the intricacies associated with the management of portfolios that contain only bond-like financial instruments. The class is divided into teams of students. Students must make real-time decisions using the latest information on financial markets to select fixed income securities to include in the portfolio. The class is sponsored by BOK Financial Corporation, the parent company of the Bank of Oklahoma.

HONORS PROGRAM
The Honors College offers special classes and sections of regular classes for academically superior students. Students in the Honors Program may graduate cum Laude, Magna cum Laude, or Summa cum Laude, depending upon their grade point average. For information on either of these programs, contact the director of the Honors College, or call (405) 325-5291.

INTEGRATED BUSINESS CORE
Undergraduate students have the opportunity to enroll in a one-semester project-based program called the Integrated Business Core (IBC), which provides both real-world experience and an integrated exposure to concepts in at least three business disciplines. IBC students gain experience by creating and managing two significant enterprises: an actual start-up company funded by a real-money loan up to $5,000 and a hands-on community service project on behalf of a non-profit campus or community organization. Participants are exposed to an integrated coverage of core business concepts as faculty deliver integrated content instruction designed to provide real-time conceptual support as students struggle to manage their business and service ventures. Students have donated more than $600,000 dollars to charity and the program has received local, regional and national acclaim.

Students who are participants in IBC:
• are responsible for mastering the concepts and terminology of each of the content courses;
• are assigned to a six- or seven-member team that remains constant in all three core courses for the entire semester;
• work as an “employee” of a six-team (i.e. 36-40 member) company that becomes an entrepreneurship/community service practicum in which students have the opportunity to apply the concepts from each of the core business disciplines as they carry out the two major projects during the semester;
• spend the first 7½ weeks developing a business plan in which the business venture is required to make a profit that will then be used to provide the resources needed for the service project. The plan is then presented to a loan review committee which grants, denies, or defers the loan application;
• after obtaining a loan of up to $5,000, have six weeks to implement their business plan.

JCPENNEY LEADERSHIP CENTER
The Leadership Program of Price College is directed at those students who will become a significant force in the economic, political, social and moral development of our state and nation.

These students have leadership potential because they are academic achievers and have those personal characteristics that thrust them into various activities in which they assume leadership roles.

The college views these student leaders as a valuable resource whose potential should be developed fully for the benefit of themselves and society. These students will help the college fulfill its mission of transmitting knowledge about the continuing adaptation of organizations in a changing global business environment.

The primary objective of the program is to provide these students with opportunities for intellectual and scholastic enrichment, stimulating contact with business and the economic leaders in the nation, and the mutual challenge and benefits of association with a peer group of equally talented students. These opportunities will lead to an enhancement of the students’ experiences at the University that will shape the course of their lives.

The three main components of the program include corporate views, fellowships and the Distinguished Visitor Series.

Corporate Views
Participants in this special program accompany executives in their normal work environment and experience firsthand the administrative responsibilities and management styles of successful business leaders. This daylong program significantly expands Associates’ classroom educational experience by enhancing their awareness of proven leadership skills and broadening their understanding of actual corporate operations.

Fellowships
The JCPenney Fellowship Program is one of the Center’s most exciting and productive avenues and adds greater value to the undergraduate educational experience of Leadership Associates. Each recipient receives a stipend to serve as either a research or training fellow to a Price College faculty mentor for one semester. Eligibility is limited to junior and senior associates. Applications and detailed information is available in the JCPenney Leadership Center.

Distinguished Visitor Series
The JCPenney Leadership Center hosts approximately four nationally respected leaders each academic year who have an Oklahoma connection — either through birth, residence, higher education, or business interest. The purpose of the Distinguished Visitors Series is to provide Leadership Program Associates with the opportunity to learn and grow from the accumulated experience and wisdom of this premier group of opinion leaders.

The purpose of inviting these leaders is to provide the members of the Leadership Program with the opportunity to be instructed by individuals with extensive accumulated experience and knowledge and to meet with them socially. The interchange with these leaders allows the students to observe leadership characteristics through small group contact, which provides a rare, enriching experience.

Application forms can be obtained from the Leadership Center located in Adams Hall, Suite 106.

STUDENT SUPPORT CENTER
The Student Support Center serves graduate students in the Michael F. Price College of Business. The value of the learning experience is expanded for graduate students by providing personal mentoring and career development resources.

Core resources provided to graduate students include:
• mentoring;
• executive visitation;
• career preparation; and
• internships — domestic and international.

The Student Support Center serves undergraduate students by coordinating:
• college scholarships;
• internships;
• co-ops; and
• Integrated Business Core (see Programs for Academic Excellence).

Special Facilities and Programs
DISTRIBUTION RESEARCH PROGRAM
The Distribution Research Program (DRP) is a self-supporting program within Price College. The Distribution Research Program conducts basic and applied research in the areas of retailing, wholesaling and channels of distribution.

The program has acquired an international reputation among both distribution professionals and academic scholars for its empirical studies in distribution. These studies have been reported through:
• More than 50 presentations to trade association conventions, such as the National Association of Convenience Stores, the National Retail Merchants Association, the Merrill Lynch Retailing Group, the National Association of Wholesaler-Distributors, the American Hardware Manufacturers Association, the Home Center Institute, the Do-It-Yourself
Research Institute, the American Dental Trade Association, the Association of General Merchandise Chairs, the National Mass Retailing Institute, and the Council of Wholesale Distributors.

- More than 40 presentations at academic conferences, including the American Marketing Association Faculty Consortium on Marketing Channels and Distribution Management, the National Retailing Conference of the Academy of Marketing Science and the American Collegiate Retailing Association, the American Marketing Association Paul D. Converse Symposium on Distribution, the American Marketing Association Faculty Consortium on Retailing, and the University of Toronto Strategic Planning and Retail Management Conference.

- More than 50 executive development programs for senior management of retailing, wholesaling and manufacturing companies.

- Articles in trade and academic publications, including Hardlines Wholesaling, the Journal of Services Marketing, the Candy Wholesaler, Hardware Retailing, Atlanta Economic Review and Review Regional Economics and Business.

- Periodic major research projects aimed at a better understanding of distribution issues. This effort includes four comprehensive studies of wholesaling in the American economy.

**AMOCO BUSINESS INFORMATION RESOURCE CENTER**

Discovery and transmission of knowledge requires information, whether that information is contained in the income statements and financial records of a large U.S. corporation, in profiles of corporate returns on investments, in business trends among the states and regions of the country, or in international trade and investment patterns. Distributive technology — the desktop computers, the interlinked local area networks, the CD-ROM readers — is altering the costs and availability of information acquisition and dissemination, enhancing the potential for greater effectiveness and efficiency in dealing with information.

Price College has developed various “pockets” of expertise in the acquisition of information for instruction and research. The School of Accounting subscribes to the FASB Financial Accounting Research Service, the Center for Financial Studies and the College cooperate in the purchase of CRSP files that contain monthly and daily returns on NUSE, AMEX, and NASDAQ corporations; and the Center for Economic and Management Research subscribes to quarterly updates to the Citibase database.

While we must rely on various “pockets” to acquire this information, we are limiting our potential for effective utilization of information in our present “distributive” organizational setting. By establishing one central place for the location and dissemination of these information sets, we can greatly enhance our effective use of information.

The AMOCO Business Resources Information Center (BRIC) supports the academic and research goals of Price College by serving as a centralized data repository and technical assistance resource for faculty and students. Individual and group instruction is provided to students and faculty in the use of database software applications and offers technical assistance and support in their use.

Data holdings include industry standard financial, economic and demographic databases obtained from state, federal, and commercial information services. The AMOCO BRIC also maintains a computer lab designed for instruction as well as routine use by students and faculty.

**CENTER FOR FINANCIAL STUDIES**

Price College, through its Division of Finance, has established the Center for Financial Studies. The mission of the Center is to support scholarly research and sponsor educational programs that will improve and share knowledge among finance students, executives and academicians.

The rapid changes occurring in the financial world make it imperative for those involved to be knowledgeable of the innovations, problems and opportunities prevailing in all sectors of the financial markets. The Center for Financial Studies will assume an important leadership role in this endeavor by directing its programs toward mid-and top-level finance executives and toward academicians with research and teaching interests in finance.

**CENTER FOR MIS STUDIES**

The Center for MIS Studies, an interdisciplinary center located in Price College, is a partnership between the University and business firms designed to carry out work on MIS topics of direct relevance and major concern to the business partners. Effective industry MIS programs require that businesses understand and utilize rapidly changing technologies and complex organizational policies, strategies and structures. Large, rapid changes of the Internet era, combined with the move toward outsourcing, makes keeping up exceptionally difficult for many companies. Costs of research, development, and training in this complex and dynamic field are high, and results are often disappointing.

The fundamental idea of the Center for MIS Studies is resource sharing — to share the knowledge, skills, and efforts of the University and the member firms in a framework that encourages innovation, quality and productivity at a reasonable cost. The goal is to create an effective research, development, and training community via a computer-mediated electronic network providing members with their own “virtual R&D department” for MIS at an affordable cost. For questions, comments, or additional information, contact:

- Center for Management Information System Studies
  - University of Oklahoma, Price College
  - 307 West Brooks
  - Norman, OK 73019
  - Phone: (405) 325-0768
  - FAX: (405) 325-7482

**OKLAHOMA INSTITUTE FOR ENTERPRISE AND FAMILY BUSINESS**

The Oklahoma Institute for Enterprise and Family Business brings together the spirit of enterprise with the understanding that most entrepreneurial companies are family businesses and, as a consequence, have both needs related to business and related to the family. The youth of Oklahoma’s economy is reflected in its large number of small, entrepreneurial businesses. The key position of these entrepreneurial businesses in Oklahoma’s economic future, coupled with rapid economic change and the issues which uniquely arise when families are in business together were the primary driving forces in the Institute’s formation. The Institute’s activities include courses for undergraduate and graduate students, research into issues affecting entrepreneurial development and family business, and a number of programs for prospective entrepreneurs, family members in business, and owners and managers in start-up ventures as well as small and medium-sized businesses.

**Honor Societies and Professional Organizations**

**ACCOUNTING CLUB**

Students majoring in accounting are eligible for membership. Organized in September 1931, the group meets bi-monthly to participate in a variety of programs concerning career opportunities and accounting developments.

**BETA ALPHA PSI**

Beta Alpha Psi is a national scholastic and professional accounting fraternity. The primary objective of the fraternity is to encourage and give recognition to scholastic and professional excellence in the field of accounting. This includes promoting the study and practice of accounting; providing opportunities for self-development and association among members and practicing accountants, and encouraging a sense of ethical, social, and public responsibility.

Membership includes those persons of good moral character who have achieved scholastic and/or professional excellence in the field of accounting, who have been initiated according to the ritual and who remain in good standing.
BETA GAMMA SIGMA
Men and women, both graduates and undergraduates, are eligible for membership on the basis of scholarship. Election is restricted to juniors in the upper 7 percent, seniors in the upper 10 percent, master’s degree candidates in the upper 20 percent of their classes and those attaining a doctoral degree.

CONNXTIONS
CONNXTIONS is a dynamic business organization designed to provide students at the University of Oklahoma with an opportunity for leadership, service, and networking skills. The organization was developed to help give students a better understanding of the business of marketing and management.

This program was created to promote mutually beneficial interaction between students and practitioners. Membership offers students the opportunity to supplement their classroom education with real-world knowledge and hands-on experience. The organization is committed to the development of the next generation of business professionals. Through activities students can begin to appreciate what it means to be a business professional.

DELTA SIGMA PI
Delta Sigma Pi is a professional fraternity for the mutual association of students with an interest in business. The Beta Epsilon chapter was founded December 4, 1921.

STUDENT CHAPTER OF THE FINANCIAL MANAGEMENT ASSOCIATION
The Financial Management Association is an international organization of financial professionals who try to bridge the gap between theory and practice. OU has a student chapter that has repeatedly received the designation “superior” chapter. The superior chapter award is restricted to the top 5 percent of finance clubs in the nation. The student chapter holds activities to acquaint finance students with the profession including career nights where practicing professionals from different fields of finance describe career tracks in their area of expertise.

GRADUATE BUSINESS ASSOCIATION
Membership in the Graduate Business Association of Price College includes all students in the Master of Business Administration, Master of Accountancy, M.S. in MIS, and Ph.D. programs. The Graduate Business Association (GBA) is active in promoting the University of Oklahoma graduate programs in business administration, and focuses on the needs of students, faculty, and the people of Oklahoma. Influential business leaders speak at meetings on a variety of topics. Past GBA activities include a gubernatorial debate as well as other community-service projects.

MANAGEMENT INFORMATION STUDENTS ASSOCIATION
The Management Information Students Association (MISSA) is an organization of career-minded MIS students who seek to expand their potential. The association provides avenues for all its members to be members of the SBA. To become active members or join SBA singularly, students should apply in Room 107.

Honors and Awards
The Delta Sigma Pi Key
Each year, Delta Sigma Pi awards the Delta Sigma Pi Scholarship Key to the graduating senior with the highest academic average for the four years of study in business administration.

The Oklahoma Society of Certified Public Accountants Award
Medals are awarded annually to the three outstanding graduating seniors majoring in accounting. The award is based on academic performance in accounting courses.

John F. Y. Stambaugh Awards
Plaques and cash awards are bestowed annually on the outstanding accounting senior and junior, based on overall academic and extracurricular performance.

The Floyd Lamar Vaughan Memorial Award
Given annually to the outstanding senior majoring in accounting.

The Kenneth Baker Horning Memorial Award
Given annually to the outstanding senior majoring in accounting.

The Oklahoma City Sales Marketing Executives Awards
Keys and awards are bestowed annually for excellence in marketing and sales studies.

The Oklahoma Chapter Of The Financial Executive Institute Of America Award
A key is awarded annually to an outstanding student majoring in accounting.

The Horace B. Brown Case Study Award
Awarded annually by the Division of Marketing to the undergraduate student (or team) who has made the most significant contribution in classes taught by the case method. The award consists of a certificate and cash award.

The Entrepreneurship Institute Awards
Separate awards are made to graduate and undergraduate students for the best plan involving entrepreneurial activities. The award includes a certificate and cash award.

www.ou.edu/business/em
Library
The Bizzell Memorial Library provides excellent facilities for research and instruction in business and economics. Students, teachers, researchers and the University community at large can research and gain access to materials in a variety of media and in numerous ways. State-of-the-art computer searches through national databases are possible through the University’s participation in national library associations. The University is a member of the Research Libraries Group which provides on-line access to the premier libraries in the United States through the Research Libraries Information Network (RLIN). The University is also connected to another, much broader database through the Online Computer Library Center, Inc. (OCLC). In addition, the University has an extensive collection of books, periodicals, microform material, newspapers, trade journals and corporation annual reports. Subscriptions are maintained to various investment, insurance, tax, labor relations and other services which keep patrons in touch with current developments. The University is a designated repository for federal documents which are kept on the fourth floor of the library.

The Bass Collection in Business History
Although ours is a business civilization, relatively little has been done to assemble library materials in the area of business and management history in most American universities. One exception is the University of Oklahoma, which has a distinguished collection in this field, capable of serving not only undergraduate and graduate students, but research scholars throughout the nation.

Through the generosity of the late Harry W. Bass of Dallas, Texas, and the continuing support of the Bass Foundation, a comprehensive collection of books and periodicals in the areas of business and management history are available at the University of Oklahoma. Mr. Bass was a former student in the College of Business.

This distinguished collection of rare and current research materials is housed in a special suite of rooms on the fifth floor of the Bizzell Memorial Library. Dr. Daniel A. Wren is curator of the Bass Collection.

The Ronald B. Shuman Research Fellowship in Business History is designated for graduate and some undergraduate students to work under the direction of the curator of the Bass Collection. This fellowship is in the amount of $1,000 to be divided between two semesters.

Center for Economic and Management Research
The Center for Economic and Management Research conducts research in business and economics as well as in such diverse areas as energy, delivery of health services, quality of life in Oklahoma and human resources utilization and development. It also provides research support and data to the business community and to federal, state, and local agencies for use in planning, as well as providing a vehicle for directly relating classroom offerings and the research thrust of Price College to the problems faced by business and government.

CEMR also houses the Survey Research Center, which provides the capability for obtaining current information on the economy of the state and on the attitudes of Oklahomans toward various issues in Oklahoma. These data are presented in special reports for use by planners and decision makers in both business and government.

The Center maintains an extensive database and makes this information available to the public through its publications program that includes press releases, reports, a quarterly economic journal (the Oklahoma Business Bulletin) and the annual Statistical Abstract of Oklahoma. Current and historical economic and demographic information are also available via the Oklahoma Resources Integrated General Information Networks Systems (ORIGINS), an Internet accessible data access and retrieval system containing databases of economic time series.

Adams Hall
Adams Hall is currently the primary office and classroom building for Price College. It contains numerous classrooms, many of which are designed with tiered seating to increase eye contact and facilitate discussion. These case study rooms contribute to and stimulate the learning process.

Instruction and research are facilitated by the computer tools made available in our computer technology enhanced classrooms. Adams Hall currently supports multiple microcomputer labs. Construction is under way for Price Hall, a $5,000-square-foot addition, to be completed in the fall of 2004.

Scholarships, Fellowships and Loans
The University of Oklahoma has many general financial aid programs, including the following: Perkins Loans, Supplemental Educational Opportunity Grants, PELL, Work-Study, Stafford Student Loans, institutional short-term loans and Lew Wentz Foundation Loans. Students interested in applying for any of these programs should contact the Office of Financial Aid Services, 731 Elm, Norman, OK 73019-2111.

In addition, Price College offers a wide variety of scholarships, fellowships, grants, loans, and research and teaching assistantships. Most financial assistance awards for doctoral students are made on April 1. For a complete listing refer to A Guide to Scholarships and Financial Aid available at the Undergraduate Programs Office, or contact the Graduate Programs Office, Michael F. Price College of Business. Examples are:

ACCOUNTING
Arthur Andersen & Co.; Ernst & Young & Co.; Exxon Corporation; Grant Thornton; Norman Chapter of CPAs; KPMG Peat Marwick Main; Phillips Petroleum; Price Waterhouse Coopers; Deloitte & Touche; Oklahoma Society of CPAs; Kerr McGee; OGE Energy Corporation; Union Pacific; and individuals provide funds for one or more scholarships each year, most ranging from $500 to $2,500, to graduate and undergraduate students majoring in accounting. Selection is based on scholarship and the recommendation of the scholarship committee of the School of Accounting.

Additional scholarships are sometimes available. Interested students should contact the School of Accounting as selection is made by a scholarship committee within the school.

ENERGY MANAGEMENT
The majority of scholarships come from companies and professional organizations within the energy industry, in addition to individuals and private foundations. For a detailed listing all of the scholarships, requirements, and the most recent amounts awarded, visit the Scholarships section of our website at www.ou.edu/business/em.

FINANCE
- The Oklahoma Bankers Association provides a $1,000 scholarship annually to an outstanding student whose major academic interest lies in the field of Banking and Finance.
- The Elmer R. Burns Jr. Scholarship is awarded annually to an outstanding student whose major academic interest lies in the field of Banking and Finance.
- The William A. Schaper Memorial Fund provides scholarships annually to students majoring in finance. The scholarships are offered in memory of Dr. William A. Schaper, a former chairperson of the Division of Finance.
- The William B. Cochran Memorial Fund is an emergency loan fund available to either graduate or undergraduate students with
preference being given to those students who have an interest in either investments or banking business. Make application to the director, Division of Finance.

- The Z. M. Lang Scholarship is available annually to a student interested in insurance.

Additional information may be obtained from the Division of Finance.

**MANAGEMENT**

The late Dr. Ronald B. Shuman, George Lynn Cross Research Professor Emeritus, established a graduate fellowship of approximately $1,000 to be granted to a doctoral student in Price College, preferably one who will write a dissertation in the field of management. Other areas, however, will be considered and the fellowship may be granted to a doctoral student who plans to write his or her dissertation in one of the other functional fields of business.

The friends of Dr. Daniel Wren, David Ross Boyd Professor Emeritus and McCasland Foundation Professor of American Free Enterprise Emeritus, have established the Daniel Wren Student Support Fund, which will be granted to a doctoral student in management. The purpose of this annual honor is to enable graduate students to conduct research on their chosen dissertation topic.

**MANAGEMENT INFORMATION SYSTEMS**

Alumni of the college and generous corporate friends help provide thousands of dollars each year for scholarships. Our professional partners include, among others, major accounting firms, aeronautical/aerospace companies, computer and high technology organizations, manufacturera, petroleum companies, retailers, and telecommunications companies. Scholarships given typically range from $500 to $4,000. Currently, approximately $55,000 in scholarships are awarded annually.

**MARKETING**

The Neva Loving Memorial Scholarship is awarded annually to a junior or senior marketing major with a demonstrated financial need according to the guidelines established by the Office of Financial Aid Services.

**SCHOLARSHIPS ADMINISTERED BY THE DEAN’S OFFICE**

The Michael F. Price College of Business Dean’s office administers a variety of scholarships for undergraduate students. These scholarships have broad requirements, including financial need, scholastic achievement, and leadership ability.

**GRADUATE STUDENT FINANCIAL AID**

Many graduate students are eligible for scholarships listed in A Guide to Scholarships and Financial Aid. Students should check with each division about eligibility.

Various types of financial aid are available through the College and the University. Teaching assistantships and research assistantships, administered through the Office of Graduate Programs, are available to both master’s-level and doctoral students. Teaching assistantships entail primarily solely or shared responsibility for instruction in specified classes at the undergraduate level. Research assistantships consist primarily of work as assistants to faculty members on research projects and other professional activities.

For information on other financial aid offered at the University, contact the Office of Financial Aid and the Graduate College.

**IMPORTANT INFORMATION**

Scholarships are subject to change periodically. Each year new scholarships are established and others are discontinued. For further information, contact the director of the division/school concerned or inquire in Adams Hall, Room 1A.

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**Undergraduate Study**

The undergraduate degree in business is designed to offer:

1. Preparation for intellectual, political and cultural citizenship and leadership.
2. A basic familiarity with facts, skills, techniques and attitudes that are relevant to business and management.
3. An opportunity to develop a sense of historical perspective and understanding of the impact of the past upon the present and future.
4. An intellectual discipline, “a way of thinking,” about problems and problem solving or the decision-making process, including the ability to weigh values and form independent judgments.
5. An in-depth exposure to a specific function or discipline.

**Admission**

To be admitted to the Michael F. Price College of Business, a student must first be admitted to the University of Oklahoma. Inquiries concerning admission to the University should be addressed to the Office of Admissions, University of Oklahoma, 1000 Asp Avenue, Room 127, Norman, Oklahoma, 73019-4076.

Freshmen and transfer students who have not completed 24 semester hours with at least a 2.50 combined retention grade point average are automatically enrolled in University College upon their admission to the University of Oklahoma. University College students may not enroll in upper-division (3000-level or higher) Business Administration courses. All students taking 3000-level or higher business courses must have junior standing and meet the grade point average, course, and permission requirements.

Admission to an undergraduate program within a degree-recommending college at the University of Oklahoma (Norman campus) shall be based upon the requirements of the University of Oklahoma that are in effect at the time of a student’s initial enrollment in any institution (including OU) in the Oklahoma State System of Higher Education.

Students are admitted to Price College once they have earned at least 24 semester hours of college credit with a combined retention grade point average of at least 2.50. Enrollment in upper-division business courses requires completion of the following:

- Permission to enroll in upper-division business courses as a degree candidate;
- 60 credit hours;
- English 1113 and 1213;
- Communication 1113 or 2613;
- Mathematics 1643, 1743 and 2123;
- Accounting 2113 and 2123;
- Economics 1113, 1123 and 2843;
- Management Information Systems 2113;
- Business Communication 2813; and
- 2.50 combined retention grade point average; 2.50 OU retention grade point average.

Academic credit from any division of the University of Oklahoma—Norman campus, Health Sciences Center, OU courses taught in Tulsa or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of admission or readmission to the University, and to the individual colleges within the University.

**Non-Business Majors**

Students not admitted to Price College may elect business courses subject to the prerequisites and minimum GPA requirements; however, business students will receive priority. Students from outside the College who seek academic advising on business course selections should inquire in the Undergraduate Programs Office, Room 105, Adams Hall.
Programs of Study

Students must complete the requirements outlined on the following pages for the degree and major chosen.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

Emphasis in this program has been placed on an educational rather than a training or vocational approach, although in certain areas, provisions for a limited amount of specialization have been made. The curriculum is designed to provide:

(a) an extension and intensification of the cultural foundation begun in the secondary schools,

(b) a comprehensive view of the general principles and procedures practiced in the business world, and

(c) in the junior and senior years, a limited amount of professional education in certain specialized subjects.

With this degree program, a student must choose one of the following majors: accounting, economics, energy management, entrepreneurship and venture management, finance, general management, human resources management, international business, management information systems, marketing, or supply chain management.

DOUBLE MAJORS

Price College offers students the option of double majors. A double major consists of hours in the selected major and completion of specific requirements of the additional major. A double major may add to the required number of hours to complete a single major business degree. Only one degree will be awarded, however both majors will be listed on the student’s transcript. Students who are not majoring in business may not double major in Price College.

MINORS

Minors are offered to both students majoring in business and those majoring in subjects offered in other colleges. Minors are offered to business majors in the following areas:

- Accounting
- Finance
- Management
- Management Information Systems
- Marketing

Minors consist of 12 credit hours of specific coursework in the selected minor. Business Administration core requirements are excluded from the minor requirements. Students majoring in subjects other than business may obtain a minor in the following area:

- General Business Minor (27 hours)

The Office of Undergraduate Programs offers academic counseling for all students desiring to double major or minor in any area of business. Appointments may be made online at www.ou.edu/biz.

ACCELERATED PROGRAM FOR GRADUATE STUDY IN BUSINESS

This program is designed to provide foundational study in the functional areas of business while a student is pursuing his or her undergraduate degree. The designated coursework may be applied toward degree requirements in the master’s-level professional degree programs offered through the Price College, as well as be used as electives to complete one’s undergraduate degree. Students in any field of study in their junior or senior years may apply for admission to the accelerated program. Because accelerated program students will be enrolled with graduate students in graduate-level classes (5000 or above), admission to the accelerated program will be highly selective and performance closely monitored.

The professional degree programs of Price College assume no prior training in either business administration or related disciplines. Accelerated Program students must designate one of the professional degree programs in business administration prior to the completion of 12 credit hours of courses in the Accelerated Program. The options include the Master of Business Administration, Juris Doctor/Master of Business Administration, Master of Business Administration/Master of Arts (French, German or Spanish), Master of Business Administration/Master of Science (Mathematics), Master of Business Administration/Master of Library and Information Studies, Master of Business Administration/Master of Science in Construction Administration, and Master of Accountancy.

Students admitted to the Accelerated Program will be provided a plan of study that considers the student’s academic background and the number of elective hours remaining in the student’s undergraduate program. The plan of study must be approved for both the student’s undergraduate degree and the Accelerated Program. Upon receipt of an undergraduate degree, accelerated program students in good standing are admitted to graduate study in a master’s-level professional degree program offered through the College of Business. At least 32 credit hours in the professional degree program must be taken after receipt of a bachelor’s degree.

Undergraduate students who have completed 90 credit hours or more may be admitted to the Accelerated Program. After 75 hours of undergraduate study, students interested in the Accelerated Program should take the Graduate Management Admission Test (GMAT). The GMAT is offered by the Educational Testing Service of Princeton, New Jersey, four times a year, typically in January, March, July and October. Only students with a cumulative grade point average at the University of Oklahoma of at least 3.00 and who receive a score of 500 or more on the GMAT will be considered for admission to the Accelerated Program. The grade point average must be based on at least 60 credit hours taken at the University of Oklahoma. Admission is determined by the grade point average, the GMAT scores, and evidence of maturity, motivation and leadership potential as indicated by personal interviews and letters of recommendation. Though the admission decision may be made prior to the completion of 90 undergraduate credit hours, acceptance is contingent upon continued performance at a high level.

Applications must be supported by official transcripts of previous study, an official report of the candidate’s score on the GMAT, and three letters of recommendation. The material must be received by April 1 for consideration for fall admission, by December 1 for spring admission and by April 1 for summer admission.

Choice of Catalog

(The rules and regulations of this catalog become effective beginning summer term, 2003.)

1. Transfer students are required to meet the degree requirements and regulations of the catalog that is in effect at the time of their first enrollment in the state system provided they complete the work for a degree within a maximum of seven years. If the work for a degree covers a period longer than seven years, students must adopt a catalog within seven years of the current catalog. (Example: The 2003–2006 bulletin may be in effect only until the end of the 2010–2013 school year [Spring, 2013].)

2. Resident students shall be governed by the degree requirements and regulations of the catalog that is in effect at the time of their initial enrollment at the University of Oklahoma provided they complete the work for a degree within a maximum of seven years. If work for a degree covers a period longer than seven years, students must adopt a catalog within seven years of the current catalog. (See example in preceding paragraph.)

3. Students may adopt any later catalog which becomes effective while they are enrolled at the University of Oklahoma, if they report this change to the Undergraduate Programs Office, Room 105, Adams Hall.

4. Credit in the major which is more than 10 years old may not be applied toward a bachelor’s degree unless it is validated by the major division.

Undergraduate Programs Office

Students in Price College or business majors in University College may receive information and assistance in Room 105, Adams Hall. Full-time academic counselors keep records on all undergraduate business majors and provide them with information concerning admission, Advisement/Degree Audits, enrollment, degree requirements, contract and stop-out.
Academic Advisement

Career and academic advisement about specific course information is available from the faculty in the major divisions.

THE RESPONSIBILITY FOR MEETING ALL GRADUATION REQUIREMENTS LIES WITH THE STUDENT.

Credit Hour Load

To be considered full time, an undergraduate student must be enrolled in at least 12 hours in a fall or spring semester and six hours in a summer session. The recommended maximum credit hour enrollment for a regular semester according to the student’s cumulative grade point average is as follows:

- Less than 2.50 — 16 hours maximum;
- 2.50–3.00 — 17 hours maximum;
- 3.00–3.50 — 18 hours maximum;
- 3.50–4.00 — 19 hours maximum.

Enrollments of 20 hours or more in a fall or spring semester and 10 hours or more in a summer session, must be approved by the associate director in the Undergraduate Programs Office, 105 Adams Hall. Students requesting overload enrollments must have earned a 3.50 GPA in both OU and combined areas.

Course Levels

Undergraduate students are not eligible to enroll in courses numbered 5000 and above.

The only exceptions to the above are graduating seniors who have petitioned the Graduate College to receive graduate credit for the course and whose petitions have been approved.

Graduate-level business courses may not count toward the undergraduate degree, however, a student may petition to count non-business courses.

Scholastic Regulations

ATTENDANCE

When absences seriously affect a student’s classwork, the instructor will report this fact to the Office of Admissions and Records. The information will also be forwarded to the Undergraduate Programs Office.

COMPUTATION OF GRADE POINT AVERAGES

The resident grade point average includes all courses taken at the University of Oklahoma (including correspondence and extension work) that apply toward a degree in Price College. Academic credit from any division of the University of Oklahoma—Norman campus, Health Sciences Center, OU courses taught in Tulsa or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of retention.

The transfer grade point average includes all courses transferred from other institutions that are accepted by the University of Oklahoma.

The combined retention grade point average is computed with both transfer and OU credits. Both the resident and overall GPA’s consist of three areas: the major, upper-division business, and overall degree.

Minimum retention grade point averages of 2.50 are required in all of these areas to be eligible to graduate.

CONTACT AND ENROLLMENT STOPS

A minimum overall grade point average of 2.50 is required for good standing in the Michael F. Price College of Business. A student whose overall and/or upper-division business grade average falls below 2.50 is placed on college contract. No contract student may enroll in upper-division courses for the following semester until the contract terms are met. An enrollment stop from Price College will be imposed if contract terms are not met.

A student who has an enrollment stop for poor scholarship is not eligible to be considered for re-enrollment until after at least one semester has elapsed following the stop. At this time, a student who is stopped from Price College is eligible to apply for readmission. An appeal for readmission, however, does not guarantee automatic readmission. Each request is considered on its individual merit. When a student is readmitted after being stopped out, the student is readmitted on academic contract. These students will have one semester to either rectify all deficiencies or meet the conditions for continued enrollment. Those failing to do so will be stopped again from the College for a period of three calendar years after which they may apply for readmission to the College.

All applications for readmission must present clearly documented evidence indicating a high probability the student will successfully complete the B.B.A. degree program. The application will be considered based upon standards of the Petition Committee of the College or such other committee as the dean might designate. If readmission is granted, it will be subject to such terms and conditions as the committee may prescribe. Some students who are stopped out from Price College may still be eligible for continued enrollment under the University retention policy. These students may continue without interruption only if they are accepted by a college other than the Michael F. Price College of Business.

General Degree Information

RESIDENCY REQUIREMENT

Candidates for the BBA degree must complete their last 30 hours as resident students in the Michael F. Price College of Business. However, if a candidate has completed the last 51 hours as a resident student at the University of Oklahoma, nine of the last 60 hours may be taken at another university or by correspondence from OU. Students must take a minimum of 24 hours of their upper-division business courses in residence for the Bachelor of Business Administration degree.

TRANSFER CREDIT

1. A maximum of 65 hours will transfer for credit from a two-year college.
2. Credit from a two-year college will be accepted to meet lower-division requirements and free electives only.
3. A maximum of six hours of transfer work will apply toward the major.

REPEATED COURSES

Students may not repeat a course in which they earned a grade of A or B, unless the course is one in which there is a change of subject matter (e.g., OSLEP, Independent Study).

If a student repeats a course at the University of Oklahoma for any purpose, the grade received the last time the course was taken becomes the grade for that course. All previous attempts are included in computing grade point averages, but credit for the course is counted only once toward the hours required for the degree. The exception would be if it falls in the University repeat policy which affects the retention and graduation grade point averages.

PASS/NO PASS OPTION

A maximum of 12 semester hours, not to exceed one course per semester, may be taken on a pass/no pass basis. This option may be applied to only social science electives and non-business free electives.
SECOND BACHELOR’S DEGREE
A student may earn only one Bachelor of Business Administration degree. If a student has graduated and is returning for a second degree:
1. The first degree may not be in business.
2. At least 2 semesters must be taken in residence at OU.
3. At least 30 additional hours must be completed in the college of the second degree. The 30 hours must be in addition to the total number of hours completed by the student for the first degree.
4. At least 24 hours of the 30 must be 3000-4000 level business courses.
If a student is pursuing concurrent degrees in 2 colleges:
1. Both degrees must be completed and certified in the same semester.
2. A graduation application must be filed for each degree. Two diplomas will be awarded.
3. At least 2 semesters must be taken in residence at OU.
4. At least 30 additional hours must be completed beyond the degree that requires the least number of hours.
5. At least 24 hours of the 30 must be 3000-4000 level business courses.

Correspondence Courses
LIMITATIONS ON ACCEPTED COURSES
1. A combined maximum of 60 hours credit by correspondence courses, extension courses, and advanced standing examinations may be applied to the Bachelor of Business Administration degree with the following restraints:
   a. A combined maximum of 32 hours of correspondence and extension work.
   b. A maximum of 30 hours of lower-division credit by advanced standing examinations.
   c. A maximum of 30 hours of upper-division credit by advanced standing examinations. (Also see “Credit by Examination,” below.)
2. Credit is given for all correspondence work except for courses presented for the major. Correspondence study may be taken in the major to be used only in the computation of the major grade point average.
3. A maximum of six hours from the 15 hours of upper-division basic core courses may be taken by correspondence.
4. Correspondence work transferred to the College is subject to the same restrictions for all transfer work. Upper-division business courses completed through correspondence and transferred to the College are subject to departmental approval.

ENROLLMENT REGULATIONS
1. Students may enroll in correspondence courses by obtaining authorization from the Undergraduate Programs Office and by contacting the Independent Study Department, 1600 S. Jenkins, Room 101, Norman, Oklahoma 73072-6507. Phone: (405) 325-1921.
2. A student may enroll in a maximum of six hours of correspondence at one time.
3. If students are concurrently enrolled in correspondence and in residence credit, the total number of hours for one semester may not exceed the recommended maximum shown under Credit Hour Load based on their overall grade point average.
4. A student must secure written permission from a counselor in the Undergraduate Programs Office (Room 105, Adams Hall) on the correspondence application form.

Advanced Standing Examinations
Students who feel they have a sufficient knowledge of the subject matter of a course offered by the University may take an advanced standing examination for undergraduate credit in the course.
A maximum of 60 hours of credit by advanced standing examinations may apply to the Bachelor of Business Administration degree. A maximum of 30 hours of lower-division credit and a maximum of 30 hours of upper-division credit may apply. (Also see paragraph 1 of Correspondence Courses, above.)

Students who have received a grade in any course, other than a W, may not subsequently take the same course by advanced standing.
The Independent Study Department administers advanced standing examinations by individual appointment for credit in courses offered by Price College.

Graduation
APPLICATION
Students must apply for the degree during their last semester. Deadlines are March 1 for spring graduates, July 1 for summer graduates and November 1 for fall graduates. Application forms are available in Room 105, Adams Hall.

DISTINCTION AND SPECIAL DISTINCTION
Students may graduate with Distinction if they have an overall and OU cumulative grade point average of at least 3.50. Graduation with Special Distinction requires at least a 3.75 overall and OU cumulative grade point average. To be eligible for Distinction or Special Distinction, 51 of the last 60 hours must be taken at the University of Oklahoma. No student who has been subject to disciplinary action will be granted a degree with Distinction or Special Distinction.

University-Wide General Education Requirements
The University-Wide General Education Requirements are being met with the curriculum required as listed in the following three sections. For further information on these requirements, refer to the University-wide general education portion of this catalog.

Requirements for the Bachelor of Business Administration Degree
The program requires a minimum of 128 credit hours, with a minimum overall grade point average of 2.50, a minimum grade point average of 2.50 in OU residence, a minimum overall and OU grade point average in the major of 2.50, and a minimum overall and OU grade point average of 2.50 in upper-division business courses. Academic credit from any division of the University of Oklahoma—Norman campus, Health Sciences Center, OU Programs in Tulsa, or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of determining completion of degree requirements.

LOWER-DIVISION REQUIREMENTS
The lower-division (1000- and 2000-level courses) requirements of 68–78 hours are to be met as follows:
1. Communications: 9 hours. English 1113 and 1213; Communication 1113 or 2613.
2. Foreign Language: 0-10 hours. Students who have completed two years of high school foreign language or two college-level courses in a single language are exempt from the general education foreign language requirement.
3. Social Sciences: 9 hours. Political Science 1113. Social science electives—6 hours to be chosen from anthropology, political science, geography (nonphysical—including economic, human and political geography), psychology, sociology. Social science electives for Price College may not be chosen from the University-Wide General Education course list.
4. Humanities: 12 hours. History 1483 or 1493; one course from each of the following three fields: Understanding Artistic Forms, Western Civilization and Culture, Non-Western Culture.
5. Science and Mathematics: 17 hours. Natural Sciences—eight hours, two courses from the biological and/or physical sciences. The two courses must be from different disciplines and at least one course must...
include a laboratory component. (Exception for energy management majors— see energy management curriculum.)
Math 1643 (Substitute: Math 1523).*
Math 1743 (Substitute: Math 1823).*
Math 2123 (Substitute: Math 2423).*

6. Basic business courses: 21 hours. Accounting 2113, 2123; Economics 1113, 1123, 2843; MIS 2113; B C 2813.

*See Department of Mathematics course descriptions in this catalog if both the mathematics requirement and a substitute are taken.

UPPER-DIVISION REQUIREMENTS

A 2.50 grade point average is required in all upper-division business coursework attempted, and in all upper-division business courses taken in residence. Students who have not obtained the minimum 2.50 grade point average in their upper-division coursework, after completion of the required hours in each area, may take additional hours in residence, provided they do so within the regulations of the Michael F. Price College of Business. A maximum of six hours beyond the residency requirement may be taken by correspondence to overcome a grade point deficiency in upper-division coursework. However, these hours may only be used to compute the upper-division grade point average; the hours will not apply toward the degree. The upper-division (3000- and 4000-level courses) business requirements of 39 hours are to be met as follows:

1. Basic core: 15 hours. Legal Studies 3323; Finance 3303; Management 3013; Marketing 3013; Business Administration 4013 (to be taken the last semester of the senior year).

   - Major:
     a. A 2.50 cumulative grade point average is required for all courses attempted in the major, and for all courses taken in residence in the major. (This excludes lower-division and basic core courses taken in the major area.) Students who have not obtained the minimum 2.50 grade point average in their major after completing the maximum hours allowed may take additional hours in residence to overcome the deficiency. The additional hours taken in the major may not be applied toward the degree, but will only be used to compute the major grade point average and the upper-division Business grade point average. A maximum of six hours of correspondence may be used to overcome a deficiency in the major grade point average. The hours will not apply toward the degree.
     b. A maximum of 18 hours in the major may apply toward the B.B.A. degree (Exceptions: Accounting and Management Information Systems).
   - c. Students must choose one of the following majors:
      ACCOUNTING: 18 hours. Accounting 3113, 3123, 3313, 3363, 3603, and 4543 (no credit given for Accounting 3013, 3023, or 3033).
      ECONOMICS: 18 hours. Economics 3113, 3133; 12 hours of economics electives.
      ENERGY MANAGEMENT: (curriculum listed below).
      ENTREPRENEURSHIP AND VENTURE MANAGEMENT: 15 hours. Entrepreneurship 3113, 4103 or 4303, 4603, and Finance 3513 or Marketing 3413.
      FINANCE: 18 hours. Finance 3403, 4103 and 4303; and nine hours of major electives.
      GENERAL MANAGEMENT: 18 hours. Management 3513, 3523; 12 hours of management electives.
      HUMAN RESOURCES MANAGEMENT: 18 hours. Management 3513, 3523; 12 hours of specified management electives.
      INTERNATIONAL BUSINESS: (curriculum listed below).
      MANAGEMENT INFORMATION SYSTEMS: 18 hours. Management Information Systems 2013, 3033, 3353, 3363, 3373, 4663.
      MARKETING: 18 hours. Marketing 3113, 3213, 3323, 4123; six hours of marketing electives.
      SUPPLY CHAIN MANAGEMENT: 18 hours. Marketing 3113, Supply Chain Management 3323, 4223, 4323; 6 hours of Supply Chain Management electives.

Upper-division business electives:
   a. Approximately six hours. The hours of upper-division business electives plus the hours of the major must total a minimum of 24.
   b. Any 3000- or 4000-level business course, other than in the major area, will satisfy this requirement. (See exceptions below.)
   c. Exceptions:
      (1) Accounting majors may apply six additional hours of accounting. (These additional hours will be used in computing the major grade point average.)
      (2) International business majors must complete an additional business major.
      (3) Energy management majors—see special curriculum for required upper-division business concentration or minor.
      (4) Management information systems majors may apply six additional hours of management information systems coursework. (These additional hours will be used in computing the major grade point average.)
      (5) Finance majors must complete ECON 3113, ACCT 3113 and ACCT 3123.
      (6) Supply chain management majors must complete ACCT 3313 and MGT 3523.

UPPER-DIVISION ELECTIVES

At least 11 hours of upper-division electives are required. These hours may be taken outside or inside the Michael F. Price College of Business except for courses in the major, in compliance with the 18-hour maximum in the major restriction. These hours must include one upper-division course from the approved General Education course list, in addition to B AD 4013, if not completed elsewhere in the curriculum.

FREE ELECTIVES

Free electives may be taken in any lower- or upper-division area outside Price College in order to complete the 128 hours necessary for the degree.

Restrictions:
   ♦ A combined maximum of eight hours of aviation, military science, and physical education activity courses may be allowed as credit toward the degree.

ENERGY MANAGEMENT

Only the requirements unique to this major will be listed below. All other B.B.A. requirements are identical to those listed on the preceding pages.

1. Lower-division requirements: eight hours of science, Geology 1104 and Meteorology 1014.

2. Upper-division requirements: (1) 18 hours in the major—Energy Management 3413, 3713, Finance 4103, Accounting 3313, Legal Studies 4523, 4613; (2) 12 hours of upper-division business concentration in one of the following: Accounting, Finance, Management, Management Information Systems, Marketing, or Energy Industry.

3. Petroleum and geological engineering requirements: nine hours in the following courses — Geology 4143; Petroleum Engineering 4033 and 4113 or Economics 4753.

4. Restricted electives: nine hours from any of the courses listed for Energy Management concentrations.

INTERNATIONAL BUSINESS

Only the requirements unique to this major will be listed below. All other B.B.A. requirements are identical to those listed on the preceding pages.

1. Lower-division requirements: 12 hours of the same foreign language.

2. Upper-division requirements: must complete an additional Price College major in one of the following: Accounting, Economics, Energy Management, Entrepreneurship and Venture Management, Finance, General Management, Human Resources Management, Management Information Systems, Marketing or Supply Chain Management.

3. International experience requirement: Students must complete an international experience through internship, OU study abroad, or other approved method as determined by Price College.
Joint Bachelor of Business Administration with a Major in Accounting and Master of Accountancy Degree

The Joint Bachelor of Business Administration with a Major in Accounting and Master of Accountancy program is an accelerated program designed to enhance the learning experiences of highly qualified, motivated students. The degree provides an efficient program of concentrated study that satisfies the academic and professional education needs of those exceptional students who have well-defined career goals.

Students seeking both a B.B.A. and Master of Accountancy should initially enter the B.B.A. program and select an accounting major. Application to the joint program should be made after completing the equivalent of 75 credit hours that count toward the B.B.A. degree. Admission to the joint program is based on an applicant's grade point average (GPA), Graduate Management Admissions Test (GMAT) score and other evidence of high academic achievement and potential. Only students with a GPA of 3.0 and receiving a score of 500 or more on the GMAT will be considered for admission to the program. The GPA will be based on at least 30 credit hours taken either at the University of Oklahoma, a university whose business program is accredited by the American Assembly of Collegiate Schools of Business, or a member institution of the American Association of Universities. The GMAT is offered by the Educational Testing Service of Princeton, NJ “on demand” at various sites in Oklahoma and throughout the world. Although the tentative admission decision may be made prior to the completion of 90 undergraduate hours, acceptance and retention are contingent upon continued performance at a high level.

LOWER-DIVISION REQUIREMENTS

The lower-division requirements are those of the Bachelor of Business Administration degree.

UPPER-DIVISION REQUIREMENTS

A 3.00 grade point average is required in all upper-division business coursework attempted, and in all upper-division business courses taken in residence. A total of at least 90 credit hours must be completed before entering the professional program.

The upper-division (3000- or 4000-level) pre-professional requirements and electives are to be met as follows:

1. Basic Core: 18 hours. Finance 3303, 4303; Legal Studies 3323; Management 3013; Marketing 3013 and B AD 4013.

2. Upper-Division Accounting: 18 hours. A 3.00 grade point average is required in all upper-division accounting courses attempted and in all upper-division accounting courses taken in residence. The courses required are Accounting 3113, 3123, 3313, 3363, 3603, and 4543.


PROFESSIONAL REQUIREMENTS

A 3.00 grade point average is required in all courses reserved exclusively for graduate students (5000- and 6000-level courses) attempted and in all such courses taken in residence.

The upper-division (4000-level) and graduate (5000- and 6000-level) course requirements and electives of approximately 60 hours are to be met as follows:

1. Required: 15 hours: Accounting 5113, 6553; Economics 5033; Legal Studies 4523; Management 5053.

2. Graduate Accounting Electives: 12 hours: Any 5000- or 6000-level Accounting course, except ACCT 5013 and 5313. Accounting electives may be selected from any area of accounting so long as the requirements of the MAcc program are satisfied.


FREE ELECTIVES

Free electives may be taken in any lower- or upper-division area outside Price College in order to complete the 150 hours necessary for the degree. For Oklahoma CPA eligibility, one hour of free elective should be 3000- or 4000-level.

Any waivers, substitutions, or elective courses from outside Price College must be approved by the Master of Accountancy program adviser.

CREDIT HOUR REQUIREMENTS

The student must maintain a 3.00 grade point average while completing a minimum of 30 hours of graduate-credit courses beyond the common body of knowledge, at least 20 of which are courses (other than readings courses) that are open only to graduate students (numbered 5000 and above). At least 30 hours of accounting beyond elementary financial and managerial accounting are required. The actual number of hours needed to satisfy all of the program requirements will depend upon each student’s background prior to admission.

COMPREHENSIVE EXAMINATION

Successful completion of a comprehensive examination is required of all candidates for the Joint Bachelor of Business Administration and Master of Accountancy degree. The examining committee may conduct an oral examination to clarify and to discuss a student’s responses on the written examination.

Graduate Study

Degrees Offered

- Master of Business Administration
- Juris Doctor/Master of Business Administration
- Joint Bachelor of Business Administration with a Major in Accounting and Master of Accountancy
- Master of Accountancy
- Master of Science in Management Information Systems
- Doctor of Philosophy

The College of Arts and Sciences offers programs leading to the Master of Arts in economics and Doctor of Philosophy in economics.

General Information

Admission to each of the graduate programs is available to students with demonstrated aptitude for, and interest in, graduate business education. Previous study in business is not required. Admission decisions are based on a number of factors, including: undergraduate/graduate grade point average, GMAT score, TOEFL (and TSE, if necessary) score, employment history, letters of recommendation and the applicant’s personal statement.

Applicants to the MBA and MAcc programs should note that a GMAT score of 580 and an undergraduate grade point average of 3.40 is representative of students currently in these programs. International applicants for whom English is not the primary language, must have an official TOEFL score of 550 or higher and a verbal subscore from the GMAT at or above the 50th percentile.

Applicants to the Ph.D. program should note that a GMAT score of 650 and a graduate grade point average of 3.85 is representative of students currently in the program. International applicants, for whom English is not the primary language, must have an official TOEFL score of 550 or higher, a verbal subscore from the GMAT at or above the 50th percentile, and must submit official scores from the Test of Spoken English.

Applicants seeking admission to graduate programs should observe the following application deadlines:

- [more content follows]
The Master of Business Administration program at the University of Oklahoma has continued to meet accreditation standards since they were originally established by the American Assembly of Collegiate Schools of Business in 1963.

The MBA program is designed to give the broad perspective needed to manage an overall enterprise, while allowing sufficient flexibility to gain in-depth preparation in an elected area of concentration. The program provides familiarity with the functional areas of business, the necessary tools for management decision making, and the environment in which organizations operate.

The MBA program has two tracks. The day track features a first-year curriculum of 32 hours. The first year includes the core courses that provide the foundation for the program as well as additional required courses. In the second year of the program, students take elective courses plus an integrated course and the capstone strategic management course. Admissions to the day track are made only for matriculation in the fall semester. This track requires 54 semester hours to complete.

The evening track allows some flexibility in the core and required courses. The core and required courses are offered annually in the evening to accommodate students with career or other obligations that conflict with day-time enrollment. The evening track has a curriculum of 42–54 hours. Advisers will provide a program of study for meeting the core and required courses. Evening students may select from the same electives as day students. Students are admitted to the evening track in the fall, spring, and summer sessions.

PART-TIME ENROLLMENT

The evening track permits part-time enrollment. The part-time student is allowed five years from the time of entrance to complete all degree requirements. The course schedule, arranged with afternoon and evening classes, is conducive to those pursuing the part-time option. All required courses for the evening track are offered in Oklahoma City.

PREREQUISITES FOR THE MBA PROGRAMS

While applicants are not required to have previous study in the field of business, they are expected to possess a basic understanding of analytical techniques (including matrix algebra, calculus, and computer usage), and a facility for expressing ideas precisely and coherently. All MBA courses are graduate-level and do not require undergraduate preparation.

PROGRAM OUTLINE

The full-time MBA is a 54-credit-hour, 21-month program. All courses are at the graduate level. Required courses are offered during the day for the first year of study and in the evening the second year. The part-time MBA requires 42–54 credit hours, depending on the student’s undergraduate background. All courses are at the graduate level and are offered in the evening. Both programs require that the student become familiar with the functional areas of business, the necessary tools for management decision making, and the environment in which business firms operate. Knowledge prerequisites include an introduction to calculus, matrix algebra, and linear programming; computer familiarity; and communication skills. Students from all undergraduate majors are encouraged to apply.

Career Concentration

Each student, working in conjunction with his or her adviser, is encouraged to structure their electives to meet their particular career objectives. The student cannot take more than 15 hours in courses offered by a single functional area within the Price College. There is a nine-hour limit on approved courses taken outside the college.

Capstone Requirement

Degree candidates must earn a grade of B or better in the capstone course, Business Administration 5313, Strategic Management. The class is to be taken during the last 12 credit hours of programmatic coursework. A student failing to make a grade of B or better will be allowed to retake B AD 5313 only once. It may not be taken a third time. Courses taken prior to failing to earn a grade of B or better in B AD 5313 for the second time will not be counted as credit toward a graduate degree at the University of Oklahoma. As an alternative, students may prepare an extensive research paper covering a topic approved by three members of the Price College graduate faculty of the College of Business. Students selecting this alternative must complete Business Administration 5490 as an elective.

Dual Degree Programs

In recognition of the strong demand for interdisciplinary expertise in many settings, Price College in cooperation with other academic units within the University, offers several dual-degree programs. While the dual-degree programs require less total hours than pursuing the degrees separately, applicants must be admitted to each program independently. Admission, retention, and degree requirements are maintained by the separate colleges.

Master of Accountancy

The Master of Accountancy program at the University of Oklahoma became the first graduate program in the State of Oklahoma to be accredited under the AACSB’s accounting accreditation program. The MAcc program is designed to prepare students for positions of responsibility in the accounting profession. Students may specialize in tax or auditing.

Individual student programs range from 33–57 semester hours of coursework, depending on undergraduate preparation and the student’s specific area of interest.

1. Admission is based on each applicant’s grade point average (GPA), Graduate Management Admissions Test (GMAT) score and other evidence of high academic achievement and potential.
2. The GMAT is offered by the Educational Testing Service of Princeton, NJ. Only students with a cumulative grade point average of 3.00 and who receive a score of 500 or more on the GMAT will be considered for admission to the program.

PART-TIME ENROLLMENT
To assist with career or other obligations that conflict with full-time enrollment, the MAcc program permits part-time study. The part-time student is given five years from the time of entrance to complete all degree requirements.

PREREQUISITES FOR THE MAcc PROGRAM
Applicants are not required to have previous study in the field of accounting and can enroll in preparatory coursework as part of their MAcc degree plan.

PROGRAM OUTLINE
ACCT 6553, Seminar in Accounting Theory; at least 12 semester hours of seminar-level accounting courses (in addition to ACCT 6553); at least 18 hours of non-accounting graduate business courses; a total of at least 33 hours of approved graduate-level coursework with at least a 3.00 grade average (on a 4.00 scale).

COMPREHENSIVE EXAMINATION
Successful completion of a written comprehensive examination over financial accounting theory and reporting is required of all candidates for the Master of Accountancy degree. In addition, the examining committee may conduct an oral examination to clarify and discuss a student’s responses on the written examination.

Joint B.B.A. and Master of Accountancy
The specific requirements for this program are listed in the undergraduate study section.

Master of Science in Management Information Systems
The minimum 33-hour MS in MIS graduate program is designed for people with an undergraduate degree in a discipline other than MIS (for example, in another business area or the humanities), who wish to embark on a career as information system analysts or designers. The program combines a solid base of business and organizational knowledge with an in-depth exposure to information systems technologies.

Students enrolled in the MS in MIS program will complete the following:
• Study the business and organizational context for MIS by completing 12 to 15 hours of core business courses.
• Complete 21 hours of graduate information systems and management course work with a balanced mix of theory and applications. In addition, candidates must demonstrate competency in two programming languages—a procedural language and a non-procedural language. This requirement may be satisfied by taking appropriate college courses, by job experience or by completing an approved course from a reputable provider.
• In place of preparing a master’s thesis, completion of MIS 5203 System Architecture and Design, with a grade of A or B.

Dual MBA/MS in MIS
This dual degree option allows a student admitted to the part-time or full-time MBA program to apply for the simultaneous enrollment in the MS in MIS program. The student may count a defined number of credit hours jointly toward both degrees. The full-time joint program requires 68 hours, 18 of which are counted jointly. The part-time joint program requires 63 hours, 12 of which are counted jointly.

Dual MAcc/MS in MIS
The dual MAcc/MS in MIS is an option for the student who wishes to pursue career options in professional services and consulting firms. Students graduating with this combination of degrees will possess the accounting background necessary for the practice of public accounting, and additionally, will have MIS expertise that will facilitate a wide range of career paths in the area of financial information design and evaluation. Dual MAcc/MS in MIS candidates must demonstrate competency in two programming languages. Students are required to sit for the Accountancy Comprehensive Exam during their last semester of study.

Doctor of Philosophy Degree
The Michael F. Price College of Business offers a program leading to the degree of Doctor of Philosophy. The applicant need not hold a degree in business administration, and applications from students in disciplines other than business are encouraged.

TIME LIMITS
The student has four years from the point of admission to candidacy and six years from the point of entering the doctoral program to prepare and successfully defend the dissertation. If the student fails to do so, he/she will be required to retake the general examination. These time limits preclude the admission of part-time students to the doctoral program.

REQUIRED COURSEWORK
Required hours in the following areas: Calculus, Linear Algebra, Statistics and Research Methods.

Core Courses in Business Administration: Accounting 5013; Finance 5043; Marketing 5063; and either Management 5083 or 6503. A student may receive credit for equivalent core courses taken at other institutions at the discretion of the Doctoral Advisory Committee.

ELECTED COURSEWORK
Total hours and specific courses will be determined by an advisory committee (with approval of the graduate programs director and the dean of the Graduate College) which is convened after the student is enrolled.

Major—minimum of 12 hours;
Concentration Area—minimum of nine hours;
Electives—minimum of six hours.

STATISTICS
A two-course statistic sequence is chosen to support the student’s plan of study. The sequence may be selected from among the many approved statistic sequences offered throughout the University, especially those in the Divisions of Economics and Marketing and the Departments of Mathematics and Psychology.

RESEARCH METHODS
Two courses in research methods are selected to support the student’s plan of study, and may be taken from any department within the University. A foreign language or a computer language may be used to fulfill one of these course requirements.

MAJORS
The major must be selected in accounting, finance, management, management information systems, or marketing/supply chain management. The course content of a major and the administration of the general examination are determined by the division in which the major is taken.

CONCENTRATION AREA
A concentration area is a set of courses taken to gain a mastery of a sub-discipline within or external to business administration. These courses may be wholly within a division of the college, across divisions, or divisions of the college and a University department outside the college. A concentration area must involve at least nine hours.
COMPOSITION OF THE DOCTORAL COMMITTEES

The Doctoral Advisory Committee will consist of at least five members, two from the major division, at least one from each of the remaining fields, and one from outside the College of Business. An accepted plan of study will be viewed as a contract between the student and the University. The Doctoral Advisory Committee is automatically disbanded upon successful completion of the written and oral segments of the student’s general examination.

The Doctoral Dissertation Committee will oversee the writing of the student’s dissertation proposal, the writing of the dissertation, and the oral defense of the dissertation. The Doctoral Dissertation Committee is constituted upon a student’s admission to Ph.D. candidacy, i.e., upon successful completion of the general examination, and will consist of at least five members, with at least two members from the major area and at least one member from each of the two fields. Furthermore, the committee must include at least one member whose appointment is in a department outside of the College of Business. The committee may also include members within or without the student’s field who possess professional expertise germane to the student’s research.

EVALUATION

In lieu of qualifying examinations (i.e., examinations over the required coursework only) the graduate programs director will convene for each student each year those faculty who are instructing the student, and said faculty will assess the performance of that student. A report will be forwarded to the student’s advisory committee and entered into the student’s permanent file. Students will not be allowed to continue in the program if they earn more than two grades of C or lower in courses taken as part of the program.

GENERAL EXAMINATION

As the student nears completion of prescribed coursework, the student should prepare for the general examination. Such examinations are not scheduled either during final examination periods or indeed at any time when a suitable committee cannot be assembled. The general examination will be taken only when the student has completed all curriculum coursework.

The student must apply for the examination at least two weeks before it is to be held. The application is completed by the student on a form provided by the Office of Graduate Programs, and is signed by the student and the members of the Doctoral Advisory Committee. The application is then examined by the graduate programs director and the dean of the Graduate College and if it is in order, is approved. Subsequently, the dean of the Graduate College will authorize the examination.

The examination will not be authorized unless the student has completed all prescribed courses, and maintained an overall grade point average of B or higher.

The general examination is intended to test the student’s mastery of a number of related fields, as well as capacity for synthesis, sound generalization, and reasoning ability. It will consist in part of written examinations covering the three fields, and will be prepared by the committee. This will be followed by an oral examination in the presence of the whole committee. A student’s performance on the general examination will be rated Pass with Distinction, Pass, or Failure. If the student fails the examination, he or she may repeat the examination either the following semester or later at the discretion of the committee; it may not be given a third time. After each attempt at the general examination, the chairperson will submit a report to the graduate dean that indicates whether the student has passed or failed and what further work must be done. If the individual has passed, the graduate dean will admit him or her to candidacy for the doctoral degree.

DOCTORAL DISSERTATION

After the general examination, the candidate will devote most of his or her time to research and composition, and may also enroll in enough hours of 6980 to meet the minimum requirements of the major division.

After admission to candidacy students must maintain continuous enrollment in 6980 until the requirements for the degree are completed or degree candidacy is discontinued.

At least two months before commencement, the candidate should deposit with the graduate dean a typewritten reading copy of the dissertation, which has received preliminary approval of the major professor. The candidate will present copy for the announcement of final oral examination, including an abstract of not more than 350 words. The dean will then appoint five persons who will read the dissertation. They may either accept or reject the dissertation. If they accept it, they may require minor changes and corrections.

DISSERTATION DEFENSE

The candidate may apply for this examination upon presentation of a corrected draft of the dissertation and receipts showing that all fees have been paid. At least four members, including the outside member, of the doctoral committee must be present to conduct the examination. The examination is open to the public.

After the examination, the committee will report its decision to the graduate dean.

Correspondence

For further information on the graduate programs in business administration, write to: Graduate Programs Office, Adams Hall, Price College of Business, 307 W. Brooks, University of Oklahoma, Norman, OK 73019-4807, (405) 325-4107.
The College of Continuing Education (CCE) provides academic outreach opportunities to the state, region, and nation. As the administrative unit for outreach at the University of Oklahoma, the College of Continuing Education programs are the means by which the University extends its resources to the people of Oklahoma and beyond. By encompassing comprehensive, multidisciplinary academic services and programs which focus on the needs of adult learners, the College of Continuing Education offers both credit and non-credit courses, seminars, workshops, conferences, correspondence study, public service activities, and travel study programs. The diversity and quality of the services available through continuing education programs provide an exciting and challenging academic experience. The College of Continuing Education develops and administers instructional activities that utilize the insight and expertise of the University of Oklahoma faculty in conjunction with community professionals in the areas of business, science, education, and the arts. The aim of the College of Continuing Education is to provide an educational foundation that enhances technical and social capability through a lifetime of learning and renewal.

In addition to the following departments and services, the College of Continuing Education is constantly developing new programs. For information regarding the most recently initiated programs, please direct inquiries to:

College of Continuing Education
1700 Asp Avenue
Norman, OK 73072-6400
(405) 325-4414
http://www.outreach.ou.edu

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Administrative Officers
James P. Pappas, Ph.D., Vice President for University Outreach and Dean, College of Liberal Studies
Richard W. Little, Ed.D., Associate Vice President for Academic Programs
Belinda P. Biscoe, Ph.D., Assistant Vice President for Public and Community Services
Anita Mann, B. Acct., Assistant to the Vice President
Linda Berardo, M.H.R., Director of Financial Services
Jerry Jerman, M.A., Director of Development
Harold Jones, Ph.D., Executive Director of Continuing Education Support Services

General Information
Department of Aviation

Glenn Schaumburg, M.H.R., Director
Reneé Mitchell, M.Ed., Recruiting and Advising Coordinator

1700 Lexington
Norman, OK 73069
Phone: (405) 325-7231
FAX: (405) 325-0136
Internet: www.aviation.ou.edu
E-mail: g.schaumburg@ou.edu

Faculty
Professor VanHorn; Ground School Instructors Kennedy, Solomon; and participating faculty from the College of Business.

Degree Offered
- Bachelor of Science

General Information
The mission of the department is to provide each student with a quality aviation education. This education will position the student for employment in the expanding aviation industry. The Aviation Department is responsible for credit and noncredit aviation education and FAA Part 141/61 pilot training. A Bachelor of Science Degree in Professional Studies with two aviation tracks is offered through OU’s College of Continuing Education. The Aviation Department has a fleet of 19 planes and also provides air transportation through its Faculty and Staff Transport (FAST) Program. This program offers an affordable and efficient travel option for constrained University budgets.

HISTORY
The University of Oklahoma Department of Aviation has been in existence since the early 1950s. The department provided flight instruction for students seeking flight certification. It wasn't until much later that a degree program was established under the College of Education. In 1993, the Professional Studies degree program was moved to the College of Continuing Education and became the college’s first undergraduate degree program.

CAREERS
Career choices for students completing the undergraduate program in aviation include airport management, corporate or airline management, employment with the FAA, corporate pilot, military pilot, airline pilot, flight instructor, air ambulance, fire and crash rescue, air marshal, and aircraft sales and insurance.

HONOR SOCIETIES AND PROFESSIONAL ORGANIZATIONS
Four societies and professional organizations are available for students in aviation:
- Sooner Aviation Club—for students interested in aviation;
- Alpha Eta Rho, Beta Chi Chapter—an international fraternity for aviation students;
- National Intercollegiate Flight Association (NIFA) Flight Team—comprised of aviation students who compete regionally on a collegiate level in various aviation-related events, varying in complexity; and,
- Dean's Squadron—recognizes excellence in academic and flight endeavors.

Facilities
MAX WESTHEIMER AIRPORT
The Max Westheimer Airport terminal building, NC 104, and the AMNE Building are the primary office and classroom buildings for the Aviation Department. The buildings contain many classrooms and study areas, with training aids, simulators, and other facilities to enhance the student’s learning environment.
Aviation students also have access to the department’s hangar, which further enhances the student’s ability to learn. Students are encouraged to take an active part in their learning process.

Undergraduate Study
Candidates for the BS degree must complete their last 30 hours as a resident student in the College of Continuing Education. However, if a candidate has completed the last 51 hours as a resident student at the University of Oklahoma, nine of the last 60 hours may be taken at another university or by correspondence.

TRANSFER CREDIT
1. A maximum of 65 hours will transfer for credit from a two-year college.
2. Credit from a two-year college will be accepted to meet lower-division requirements only.
3. A maximum of twelve hours of transfer work will apply toward the major.

CORRESPONDENCE COURSES
1. A combined maximum of 60 hours credit by correspondence courses and advanced standing examinations may be applied to the Bachelor of Science degree with the following restraints:
   a. A combined maximum of 32 hours of correspondence work for the Bachelor of Science degree.
   b. A maximum of 30 hours of lower-division credit by advanced standing examinations.
   c. A maximum of 30 hours of upper-division credit by advanced standing examinations.
2. Credit is given for all correspondence work except for courses presented for the major. Correspondence study may be taken in the major to be used only in the computation of the major grade point average.
3. A student may enroll in a maximum of six hours of correspondence at one time.
4. A student must secure written permission from their counselor on the correspondence application form. Students may then enroll in correspondence courses by contacting the Independent Study Department, 1600 S. Jenkins, Room 101, Norman, OK 73072. Phone: (405) 325-1921.

ADVANCED STANDING EXAMINATIONS
Students who feel they have a sufficient knowledge of the subject matter of a course offered by the university may take an advanced standing examination for undergraduate credit in the course with the following restraints:
1. A maximum of 60 hours of credit by advanced standing examinations may apply to the Bachelor of Science degree (Also see paragraph 1 of Correspondence Courses, above).
2. Students who have received a grade in any course, other than a W, may not subsequently take the same course by advanced standing.
3. A maximum of nine hours of aviation may be accomplished through advanced standing examinations.
The Independent Study Department administers advanced standing examinations by individual appointment for credit.

STOP-OUT POLICY
Any student who has declared aviation as their major, must maintain at least a 2.00, while also meeting all departmental and FAA rules, to remain eligible for continued enrollment. If a student's GPA falls below the 2.00...
minimum or they do not adhere to departmental and/or FAA policies, that student will be placed on probation for one semester. At the end of the probationary period, the student must have no less than a 2.00 GPA and have remedied their policy deficiency or they will be stopped-out of the aviation program and will be required to change their major. Stopped-out students are not eligible for credit or non-credit aviation courses.

Students are not eligible to apply for readmission to the College of Continuing Education-Aviation Department without petitioning to the Aviation Academic Advising Office, prior to the semester the student wishes to return. Approval is unlikely until the student has earned one full semester of a 3.50 GPA or two consecutive semesters of a 3.00 GPA. The student should not have earned a D or F in any rigorous courses such as math, science, and/or business. During this time, students are expected to earn high grades while also completing coursework that will apply to the degree requirements. Upon readmission to the program, after being stopped-out, students will be required to meet the newest degree catalog requirements.

**MATH REQUIREMENT**

All aviation majors are required to complete a math course each semester until the MATH 1743 requirement is fulfilled. If an aviation major skips a semester between enrolling in a math course and has not completed MATH 1743, they will not be compliant in accordance to departmental rules and will be eligible to be stopped-out of the aviation program.

**VALIDITY OF COURSEWORK**

Previous coursework is only good for ten years. After ten years coursework must be reviewed by the administration of the Department of Aviation to determine the eligibility of the coursework towards the degree program.

**GRADUATION**

Students must apply for the degree during their last semester. Deadlines are March 1 for spring graduates, July 1 for summer graduates, and November 1 for fall graduates. Application forms are available in the Academic Records office or with the aviation advisor.

Students may graduate with Distinction if they have an overall and OU cumulative grade average (including last semester's grades) of at least 3.50. Graduation with Special Distinction requires at least a 3.75 overall and OU cumulative grade point average. No student who has been subject to disciplinary action will be granted a degree with Distinction or Special Distinction.

**Bachelor of Science Degree**

The undergraduate degree in aviation is designed to offer students a choice in their aviation career. The degree offers three options: Aviation Management, Professional Pilot, and Non-Flying Aviation Management. Upon completion of the program, the student will have a basic familiarity with the facts, skills, techniques, and attitudes which are relevant to the aviation industry, along with the basic educational and aeronautical experience to compete in today’s aviation marketplace.

The undergraduate major requires a minimum of 60 hours of General Education, including the senior capstone course at a senior institution. The degree also requires a minimum of 20-27 hours of aviation courses. Free electives are to be chosen in consultation with the undergraduate academic adviser. However, only 9 of these hours can be military science, and/or activity courses; a maximum of 32 hours of correspondence courses will be accepted. A maximum number of seven hours in aviation may be accomplished through the advanced standing option (all lower-division), and a maximum of 12 hours will be accepted for transfer in the major. Students must complete a minimum of 40 hours of upper-division coursework to be eligible for graduation.

Students considering a major in aviation should contact the adviser or the director for assistance in selecting courses which contribute to the student’s educational and career plans.

The program requires a minimum of 128 credit hours, with a minimum overall grade point average of 2.25, a minimum grade point average of 2.25 in OU work, a minimum grade point average in the major of 2.25, a 2.25 in upper division business courses, and a minimum grade point average of 2.50 in the business minor. Academic credit from any division of the University of Oklahoma—Norman campus, Health Sciences Center, OU-Tulsa, or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of determining completion of degree requirements.

**LOWER-DIVISION REQUIREMENTS**

The lower-division (1000- and 2000-level courses) requirements are to be met as follows:

1. **Communications:** 9 hours. English 1113 and 1213; Communication 1113. The Professional Pilot track also requires Communication 2213.

2. **Foreign Language:** 0-10 hours. Students who have completed two years of high school foreign language or two college-level courses in a single language are exempt from the general education foreign language requirement.

3. **Social Sciences:** 9 hours. Political Science 1113, Economics 1113 and 1123.

4. **Humanities:** 12 hours. History 1483 or 1493; one course from each of the following three fields: Understanding Artistic Forms, Western Civilization and Culture, Non-Western Culture. One of these courses must be 3000- or 4000-level.

5. **Science and Mathematics:** 17 hours. Meteorology 1014, Physics 1114, Math 1643, 1743 (may substitute 1823), and Meteorology 2603.

6. **Basic Business Courses:** Accounting 2113, 2123; Business Communication 2813; Economics 2843; MIS 2113.

Upper-division and aviation courses are outlined below according to the specific track.

**AVIATION MANAGEMENT**

1. **Business Courses:** 18 hours. Finance 3303, Legal Studies 3323, Management 3013, 3513, 3523, and Marketing 3013.

2. **Additional Science Requirement:** 3 hours. Meteorology 2603.

3. **Aviation Courses:** 29 hours. Aviation 1113, 1222, 2231, 2341, 2513, 3113, 3133, 3513, 3572, 4552, 4713, and 4983.

4. **Free Electives:** 9-19 hours. May be chosen from aviation or other courses.

5. **Specialized Electives.** Students are not required to complete all aviation electives listed, but may choose to do so for additional training. Aviation 3111, 3333, 3581, 4113, 4313, 4423, 4602, 4613, 4622, and 4990.

**NOTE:** Students electing this track are eligible to receive a minor in business.

**PROFESSIONAL PILOT TRACK**

1. **Business Courses:** 12 hours. Management 3013, 3513, 3523, 4363.

2. **Additional Science Requirement:** 3 hours. Meteorology 2603.

3. **Aviation Courses:** 36 hours. Aviation 1113, 1222, 2231, 2341, 2513, 3113, 3133, 3513, 3572, 3581, 4113, 4423, 4552, 4713, and 4983.

4. **Free Electives:** 5-15 hours. May be chosen from aviation or other courses.

5. **Specialized Electives.** Students are not required to complete all aviation electives listed, but may choose to do so for additional training. Aviation 3111, 3333, 4113, 4602, 4613, 4622, and 4990.
student records are kept in the College of Continuing Education Registration and Records Office. Registration for credit and non-credit classes is offered through the College of Continuing Education. Many conferences, workshops, and seminars are scheduled through this office. CCE Registration and Records will send registration staff to sites both on and off-campus upon request. Any questions regarding financial payments and billings should be directed to CCE Registration and Records staff. CCE Registration accepts MasterCard, Visa, American Express, and Discover. Independent Study registration is processed through the Independent Study Office.

Telephone registration is often the most convenient form of course registration. Those interested in attending non-credit programs may call (405) 325-2248 during regular office hours (8 A.M.–5 P.M., Monday–Friday) to register. Registration for these activities may also be faxed to (405) 325-7164. To register for credit courses call (405) 325-1021. Oklahomans outside the Norman area or those outside Oklahoma may call 1-800-522-0772 ext. 2248 for non-credit registration or 1-800-522-0772 ext. 1021 for credit registration.

Registrations can also be processed by mail if the registration form with all requested information is submitted to the CCE Registration and Records Office. Registration forms for non-credit classes and class schedules are available upon request from the College of Continuing Education, 1700 Asp Avenue, Norman, OK 73072-6400. You may view the class schedule online at www.outreach.ou.edu. Before classes begin, registration may be transferred from one course to another, regardless of the length of either course. Early registration is strongly recommended as some courses have a deadline. Please consult the course description in the CCE class schedule for the specified date.

To request an application for admission or for more information regarding requests for transcripts, admission criteria, or records please contact: Registration and Records, College of Continuing Education 1700 Asp Avenue, Room B-1, Norman, OK 73072-6400 or FAX: (405) 325-7273.

Oklahoma Center for Continuing Education

The College of Continuing Education at the University of Oklahoma is housed in the Oklahoma Center for Continuing Education (OCCE). Designed as a comprehensive adult learning community for educational activities, OCCE is one of eleven W.K. Kellogg Foundation-funded centers in the United States and Britain.

OCCE provides a comfortable setting for some 35,000 individuals who have chosen this unique residential facility for their meetings, conferences, workshops, and seminars.

The Thurman White Forum Building offers facilities for 1,500 participants through a combination of 21 meeting rooms, a 20-station computer laboratory, and the large auditorium-sized Forum Room which seats 600. Equipped with soundproof projection and audio booths, multiple screens, audio/visual equipment and camera decks, the Forum Room provides many technical adaptations to meet any group’s conference requirements. On-site technical support is available for the CCE Computer Lab.

The Sooner Hotel and Suites, a three-story hotel facility, ensures a pleasant stay for conference participants. Recently remodeled, the Sooner Hotel has accommodations for 146 in its double and single rooms. Ten cottage units provide an intimate atmosphere with a kitchenette, living area, two double bedrooms and a bath.

The Commons Restaurant, a combination of cafeteria, banquet halls, and private dining rooms, provides catering services and special banquet facilities. Three large dining rooms may be combined to accommodate 600 people for large banquets and receptions. The President’s Dining Room on the mezzanine will comfortably seat 40. For more information on the Oklahoma Center for Continuing Education call (405) 325-7378.

Conference Services

Debra R. Corley, Program Development Specialist
Phone: (405) 325-7378

The Conference Services staff is able to provide conference planning with regard to on-site facilitation, conference budgeting, reports, name badges, registration services, refreshments, meals, housing, transportation, and entertainment as well as a variety of special requests. Whether your meeting is an internal retreat for as few as five people or an international symposium for 500 to 1500 people, Conference Services will provide you with the expertise to make your conference a success. Call (405) 325-SERV.

Advanced Programs

Paul Crawford, Director
Phone: (405) 325-2250

Advanced Programs was established in May 1964 as part of the University’s Continuing Education and Public Service commitment. Funded by student enrollments under the 1958 Government Employees Manpower Act and with the support of the W.K. Kellogg Foundation, the University of Oklahoma pioneered the intensified seminar teaching format. This format is based upon advanced class preparation, a one-week or two-weekend class session, and an additional one-hour companion directed reading for each class. In all aspects, except in the use of time, Advanced Programs courses are identical to their counterparts taught on the Norman campus.

Today, thousands of men and women have completed their masters’ degrees using the Advanced Programs format. The same high quality and dedication to excellence demanded in the beginning have been a hallmark for national ranking and prestige among graduate degree programs serving the United States Armed Forces.

Graduate courses offered through Advanced Programs lead to a fully accredited resident graduate degree and are delivered worldwide to military and civil service personnel and families. Advanced Programs offers graduate courses at the following sites:

- Azores—Lajes Air Base
- Belgium—SHAPE
- England—Lakenheath/Mildenhall Royal Air Force
- Germany—Heidelberg; Hohenfels; Ramstein Air Base; Rhein-Main Air Base; Spangdahlem/Vilseck; and Würzburg
- Guam—Andersen Air Force Base
- Hawaii—Hickam Air Force Base
- Hong Kong—Hong Kong
- Iceland—Keeflavik NAS
- Italy—Naples NAS
- Japan—Yokosuka Air Base; Yokota Air Base
- Korea—Yongsan United States Army Garrison; and Osan Air Base
- Kosovo—Camp Bondsteel
- Netherlands—Treebeek
- Okinawa—Kadena Air Base
- Spain—Rota Air Force Base
- United States—Mountain Home Air Force Base, Idaho; Nellis Air Force Base, Nevada; Offutt Air Force Base, Nebraska; Ft. Sill United States Army, Oklahoma; OCCE, Norman, Oklahoma; Quantico Marine Base, Virginia; Tinker Air Force Base, Oklahoma; Washington, D.C.; and Hurlburtfield, Florida.

Advanced Programs offers coursework toward the Master of Arts with a major in Economics, Master of Arts with a major in Communication, an interdisciplinary Master of Arts with an emphasis in International Relations, Master of Human Relations, Master of Public Administration, Master of Social Work, Master of Human Relations with an Emphasis in Human Resource Development, a Master of Human Relations with an Emphasis in Community Services, and a Bachelor of Liberal Studies. All credit is in semester hours and all credit is fully accredited in-residency.

Advanced Programs also offers a Ph.D. program in Organizational Leadership. The program is being offered to the third 30-member cohort.
American Indian Institute

Ramona W. Moore, M.Ed., Associate Director
Phone: (405) 325-4127

The American Indian Institute (AII) was established in 1951 and continues a long history of working with individual tribes and tribal consortia. The Institute hosts major Indian conferences annually at state, regional, and national levels and serves as a resource to Indian tribes and organizations by providing training programs and projects that help initiate self determination legislation. Conference proceedings and cultural curriculum lessons, derived from workshops and conferences, are available for purchase.

The Institute operates the Native American Research Information Services (NARIS), a computerized database consisting of a comprehensive catalog of 14,000 citations of published and unpublished research focusing on Native American human and economic development from 1969 to the present. All continues its dedication to promoting education, training, and career development opportunities for Indian people by fostering and facilitating the economic development of Indian human and natural resources, advocating the perpetuation of Native American cultures and traditions and ensuring that University resources and facilities are made accessible to Indian tribes, groups, and organizations. For more information call (405) 325-3333, or you may wish to view our website at www.goOU.ou.edu.

Arts and Sciences Programs

Bruce Roberts, D.M.A., Interim Director
Phone: (405) 325-5101

Students may participate in courses and degree programs in the social sciences, humanities, natural sciences, and mathematics, as well as courses offered through professional schools. Arts and Sciences Programs extends the faculty resources of the College of Arts and Sciences to lifelong learners through courses, conferences, seminars, travel study programs, and grant-funded projects to meet the learning needs of traditional and non-traditional students. Credit and non-credit courses are offered in a variety of evening and weekend course formats that working adults and part-time students find convenient.

A variety of travel study programs such as Summer in France, Summer in Mexico and Summer in Santa Fe, enable students to enrich their studies of language, history, and culture beyond the classroom.

Center for Business and Economic Development

R. Clint Miner, Ph.D., Director
Phone: (405) 325-1944

The Center for Business and Economic Development provides training, consulting, and organizational assessment for business, professional groups, institutions, and public and private organizations as well as federal and state agencies. Seminars offered throughout the state serve the business sector by offering the highest quality training programs in convenient locations. Course topics include a thorough understanding of managing in an information society, converting management to specific training in business strategy, management of human resources, and many other contemporary management topics.

The center is in its eleventh year of offering collaborative programs in cooperation with the College of Business. The strategic alliance between the College of Business and the College of Continuing Education provides cutting edge programs to middle and senior level executives. Through the center, managers are provided opportunities to discuss ideas, develop strategies, and analyze management concerns as they relate to the workforce and the international workplace in the new century.

DEVELOPMENT COURSES

In-house management training programs at business or workplace sites are scheduled as needed through the Center for Business and Management. Such in-house programs make it possible to provide employees with educational programs at minimal cost. Programs include Fundamentals of Supervision, Achieving Excellence, Workplace Diversity, Advanced Supervision/Performance Management, Leadership and Organization, Developing Organizational Commitment, Team Building and EEO Training for Managers and Supervisors. For more information on professional development courses call (405) 325-1945.

NATIONAL CONFERENCES

Important national groups who receive training and facilitation through this office include the American Bankers Association, the U.S. Postal Service, the Communication Workers of America, Fleming Foods, and The Refrigeration Research and Education Foundation. The center coordinates training for the State Chamber of Commerce and in cooperation with the ABA, conducts annual banking schools covering such areas as commercial lending, compliance, bank card management and consumer credit.

ECONOMIC DEVELOPMENT

The University of Oklahoma’s Economic Development Institute (OU/EDI) is a nationally recognized provider of Economic Development Training. It is accredited by the International Economic Development Council and has been offering programs since 1962. Recognized as the gold standard of economic development training, the Institute provides life-long learning and training programs for the Economic Development professional. This unique, university-based training program provides Economic Development professionals with the practitioner skills necessary to impact the economic health of their communities. The curriculum also meets the International Economic Development Council’s educational prerequisites for professional certification.

The faculty is drawn from nationally renowned experts who have a demonstrated track record of outstanding success in the field. The OU/EDI program is offered at sites across the country. For more information about OU/EDI please call (405-325-1944) or visit our website at www.occe.ou.edu/edi.

The Center for Business & Economic Development (CBED) houses the Economic Development Administration (EDA) funded University Center. The EDA University Center provides training and technical assistance in
support of communities, state agencies, councils of government, private sector businesses, and development organizations engaged in economic development activities throughout the State of Oklahoma and the nation.

Utilizing human and technical resources within the University, the Center functions as a project liaison, linking University resources with community and economic development entities for project development. University-based technical assistance projects serve to enrich students’ real world work experiences through intern projects, both individually and through professor led classroom projects. The center primarily uses graduate students from the fields of Regional & City Planning, Landscape Architecture, Business, Geography, and Public Administration for project assignments. While the center links resources to match project requirements, it also maintains high quality in-house expertise to conduct research and deliver projects.

The center works with a variety of local, regional, state, and national service providers. One of the center’s primary missions is to coordinate with the Oklahoma EDA Sub State Planning Districts/Councils of Governments through the delivery of technical assistance and research, benefitting Oklahoma communities. The University Center conducts feasibility studies, strategic plans for tourism, economic development, and GIS software training, along with regional housing studies and master plans. The Center also manages the very successful Oklahoma Scenic Byways Program. For more information, call (405) 325-3891.

**Center for Child and Family Development**

E. Joe Weise, M.S., L.P.C., C.P.S., Director  
Phone: (405) 325-1446

The Center for Child and Family Development (CCFD) is a multi-purpose center that focuses on the contemporary issues surrounding developing children, youth and families. The Center’s mission is to initiate and implement programs, coalitions, and networks which support the on-going development of children and their families through the promotion of healthy lifestyles.

Nationally recognized for the GROWING UP STRONG curriculum, the Center for Child and Family Development also provides technical assistance and training to community coalitions, public and private agencies, and policy groups. The Center emphasizes creating positive outcomes through services and improved public policy regarding substance abuse, mental health, violence prevention and economic independence.

For more information call (405) 325-1446, or visit us at [http://swpc.ou.edu](http://swpc.ou.edu).

**Center for Early Childhood Professional Development**

Charlotte Hollarn, M.Ed., Director  
Phone: (405) 799-6383  
FAX: (405) 799-7634

The focus of the Center for Early Childhood Professional Development is hinged on the beliefs that all programs for young children, in whatever setting, will provide high quality, developmentally appropriate care and education and that childhood professionals will be knowledgeable individuals who demonstrate a commitment to excellence that results in improved educational foundations and quality of life for all Oklahoma children. Among the Center’s goals are to play an active role in developing an articulated, clearly defined career development system for early childhood professionals and to help establish a variety of paths for teachers to improve their professional qualifications.

The center is involved in a number of initiatives to carry out these goals. These include developing, implementing, and analyzing a comprehensive training program; forming effective work groups and partnerships to implement strategic directions; conducting conferences for professionals in the field; and establishing a career recognition system. Among the Center’s collaborative partners are the Oklahoma Departments of Human Services, Education, and Career Tech; regional and Indian Head Start programs; various early childhood professional organizations; state two- and four-year colleges and universities; and others.

For more information, see the Center’s website at [www.cecpd.org](http://www.cecpd.org).

**Center for Effective Schools**

John E. Steffens, Ph.D., Executive Director  
Phone: (405) 325-7080

The Center for Effective Schools was established in 1999 to assist at-risk K-12 public schools in Oklahoma. The Effective Schools office develops and implements comprehensive school reform strategies to create learner-centered schools based on the Effective Schools research by Dr. Ron Edmonds and Dr. Larry Lezotte at the University of Michigan. Assistance is focused on helping school sites develop a comprehensive school reform plan and its implementation.

The Effective Schools Model is a scientific research-based process that focuses on raising student achievement by implementing the Seven Correlates of Effectiveness. These are:

- Instructional leadership;
- Clearly stated and focused mission;
- Safe and orderly environment;
- Frequent monitoring of student progress;
- High expectations for all students;
- Maximize learning opportunities;
- Positive communication — school, home and community.

Strategic planning to implement the Effective Schools process will help sustain school improvement year after year.

**Center for English as a Second Language**

Kathy Cardott, M.Ed., Director  
Phone: (405) 325-6602  
e-mail: kcardott@ou.edu

The Center for English as a Second Language (CESL) offers an intensive English language program leading to English language proficiency. Designed for highly motivated students who wish to master English quickly and thoroughly, CESL provides beginning through advanced level instruction throughout the year. CESL can help increase the English language skills of international students who are academically qualified for admission to the University of Oklahoma, who need assistance to meet the University’s English proficiency requirement. CESL also provides an ideal means of gaining greater English competency for residents of the community.

For more information call (405) 325-6602, or on the Web at [www.cafe.ou.edu/cesl](http://www.cafe.ou.edu/cesl) or e-mail at [esl@ou.edu](mailto:esl@ou.edu).

**Center for Grant and Contract Studies**

Brad Quinn, M.B.A., Director  
Phone: (405) 325-7091

The Center for Grant and Contract Studies has as its goal the improvement of the quality of financial and administrative management of sponsored programs for colleges and universities, state and local governments, Indian tribes, and non-profit organizations. Currently, the center offers conferences and workshops on Basic and Advanced Direct Cost Issues, Indirect Cost and Other Financial Issues for Short-Form Schools, Faculty Practice Plans and Other Financial Issues Affecting Medical Centers, Design and Management of Effective Internal Control and Compliance Systems, Integrated Data Systems, Indirect Cost Institute, Program Development and Proposal Services, and more.

For more information call (405) 325-7091.
Preparation, Mid-Year Accounting and Auditing Update, and Oklahoma Single Audit. The Center has also produced copyrighted publications designed to help the sponsored program administrator better understand the Office of Management and Budget Circulars. Nearly 1,000 participants from more than 300 campuses have already attended the Center’s programs. For more information call (405) 325-7091.

Center for Independent and Distance Learning

Randall M. Doerneman, M.Ed., Director
Phone: (405) 325-1921, or 1-800-942-5702
e-mail: rdoerneman@ou.edu

Cross Main Building
1600 S. Jenkins
(405) 325-1921; FAX: (405) 325-7687

The Center for Independent and Distance Learning (CIDL) is the distance education development and delivery component of the College of Continuing Education. CIDL serves both University and non-University communities through the application of technologies to education delivery. CIDL includes the following:

- Electronic Media and Photo Services
- Independent Study Department/Testing
- Telecourses and Television Programs

Electronic Media and Photo Services
Phone: (405) 325-1427

Electronic Media and Photo Services (EMPS) provides photo services including studio portraits and publicity photos for a wide variety of OU events. A state-of-the-art digital photo production facility enables faculty to prepare high-quality photographic images for immediate distribution.

Independent Study
Phone: 405 325-1921, or 1-800-942-5702

- College Independent Study
- High School Independent Study
- Advanced Standing/Testing Out
- College Level Examination Program (CLEP)

INDEPENDENT STUDY COURSES

College Independent Study offers students more than 140 University credit and non-credit courses in more than 40 academic disciplines. Each college-credit course contains subject matter identical to that of classes offered on the Norman campus. The Independent Learning High School program offers students over 100 courses and is a fully accredited diploma granting program. College and high school courses are available in both a print-based and online format.

CREDIT THROUGH TESTING

The Center for Independent and Distance Learning provides students various options to earn credit through testing. Among these are the College Level Examination Program (CLEP), the DANTES, and institutionally developed advanced standing examinations (ASE).

For more information on correspondence study or credit through testing, call the Independent Study Department at 1-800-942-5702 or (405) 325-1921; e-mail: isd@ou.edu; website: http://isd.ou.edu.

The following credit courses are available through the Independent Study Department at the time of publication. Information regarding specific online course offering can be obtained on the department’s website, http://isd.ou.edu.

Anthropology - ANTH
1113, General Anthropology
2113, Introduction to Archaeology
2203, Peoples of the World
3043, Mythology and Folklore
3893, Maya, Aztec, and Inca
4813, Archaeology of North America

Astronomy - ASTR
1504, General Astronomy

Business Administration - B AD
3503, Real Estate Principles

Business Communication - B C
2813, Business Communications

Chemistry - CHEM
1315, General Chemistry
1415, General Chemistry continued
3053, Organic Chemistry
3153, Organic Chemistry

Chinese - CHIN
1115, Beginning Chinese
1225, Beginning Chinese cont.

Classical Culture - CL C
2412, Medical Vocabulary

Communication - COMM
2513, Introduction to Statistics

Drama - DRAM
3713, History of the Theatre I
3723, History of the Theatre II

Economics - ECON
1113, Principles of Economics—Macro
1123, Principles of Economics—Micro

Education - EDUC
3054, Education of Exceptional Learners

English - ENGL
1113, Principles of English Composition
1213, Principles of English Composition
4133, History of the English Language

Finance - FIN
1203, Personal Finance
3303, Business Finance
3403, Financial Intermediaries and Markets

French - FR
1115, Beginning French
1225, Beginning French (continued)
2113, Intermediate French
2223, Intermediate French (continued)
4313, French Civilization I
4323, French Civilization II

Geology - GEOL
1104, The Dynamic Earth
1124, Earth History

German - GERM
1013, Beginning German for Reading
1023, Beginning German for Reading (cont.)
1115, Beginning German
1225, Beginning German (continued)
2113, Intermediate German
2223, Intermediate German (continued)
2323, German Composition and Conversation

Greek - GRK
1115, Beginning Greek
1215, Beginning Greek (continued)
2113, Intermediate Prose

Health and Exercise Science - HES
2022, Theory of Coaching & Athletic Management
2823, Elementary Nutrition
2913, Personal Health
3052, Theory of Baseball
3072, Theory of Basketball
3253, Recreation Resources & Leisure Environment
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<tr>
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<th>Course Title</th>
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<tr>
<td>0103</td>
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<tr>
<td>0103</td>
<td>Beginning Algebra</td>
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<tr>
<td>0173</td>
<td>Mathematics for Critical Thinking</td>
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<tr>
<td>1503</td>
<td>Introduction to Elementary Functions</td>
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<td>1523</td>
<td>Elementary Functions</td>
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<td>1823</td>
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<td>Arithmetic for Elementary Teachers</td>
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<td>Calculus and Analytic Geometry II</td>
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<td>3013</td>
<td>Principles of Organization and Management</td>
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<td>3513</td>
<td>Human Resources Management</td>
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<td>1113</td>
<td>Introduction to Logic</td>
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<td>1213</td>
<td>Introduction to Ethics</td>
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<td>3253</td>
<td>History of Ethics</td>
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<tr>
<td>1113</td>
<td>American Federal Government</td>
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<tr>
<td>3313</td>
<td>Urban Government and Politics</td>
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<tr>
<td>2403</td>
<td>Introduction to Personality</td>
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<tr>
<td>2603</td>
<td>Developmental Psychology</td>
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<td>4753</td>
<td>Industrial Psychology</td>
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<td>1115</td>
<td>Beginning Russian</td>
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<td>1225</td>
<td>Beginning Russian (continued)</td>
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<td>2003</td>
<td>Masterpieces of Russian Literature in Translation</td>
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<td>3023</td>
<td>Beginning Business Russian</td>
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<tr>
<td>3203</td>
<td>Scientific Russian</td>
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<tr>
<td>3523</td>
<td>The Sociology of Crime and Delinquency</td>
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<td>3533</td>
<td>The System of Criminal Justice</td>
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<tr>
<td>3723</td>
<td>Sociology of the Family</td>
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<tr>
<td>1115</td>
<td>Beginning Spanish</td>
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<td>1225</td>
<td>Beginning Spanish (continued)</td>
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<tr>
<td>2113</td>
<td>Intermediate Spanish</td>
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</tbody>
</table>

### Telecourses and Televised Instruction

**Scott Williams, Coordinator**  
**Phone:** (405) 325-6012  
**e-mail:** swilliams@ou.edu

#### TELECOURSES FOR CREDIT

Telecourses combine broadcast lectures and independent study, permitting students to earn credit by viewing course lectures/content on public and cable television channels. Students will visit the campus only for orientation, examinations, and optional review sessions. A television viewing lab is available as an alternate viewing location at the Center for Independent and Distance Learning, 1600 South Jenkins, Norman, OK.

At the orientation session for each telecourse, students will have the opportunity to meet the course instructor and to obtain the information necessary for success in the telecourse. Broadcast dates/times and a listing of required texts and study guides will be provided to students at orientation. In addition to tuition fees, an additional media fee of $15 per credit hour is required for enrollment.

### CONNECTING THROUGH VIDEO

The Center for Distance Education provides video-conferencing services for seminars, meetings and presentations as a cost-effective means of connecting participants in multiple locations.

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**Center for Institutional Data Exchange and Analysis**

**Rosemary Hayes, M.A., Director**  
**Phone:** (405) 325-2158

The Center for Institutional Data Exchange and Analysis (C-IDEA) was established in April 1998 to meet the growing national demand for comparative institutional research data. Its mission is to assist colleges, universities, and other higher education organizations in developing comparative data and in utilizing existing national databases for planning and decision-making.

Typically, the center's projects are funded by two sources: grass-root support from colleges and universities and federal/state grants and contracts. As an example of projects receiving grass-root support, C-IDEA is the host of the Consortium for Student Retention Data Exchange (CSRDE). The CSRDE is supported by a diverse group of more than 470 four-year colleges and universities. Working together with these institutions, the center conducts annual retention studies and publishes a report on "Retention and Graduation Rates at U.S. Colleges and Universities" each year. This publication provides the most up-to-date and comprehensive retention data analyses in the nation, and addresses the retention and graduation rates of 80% of all first-time full time freshmen attending public institutions. It is widely used as a reference guide for bench marking retention and graduation rates on today's college campuses. The CSRDE also studies the retention and graduation of science, technology, engineering and mathematics (STEM) majors, as well as community college transfers into four-year institutions.

More recently, the center has begun an initiative to expand the CSRDE to include community colleges in its membership. This expansion will provide community colleges the opportunity to engage in cooperative data sharing.
and reporting activities that will address the retention, graduation, awards, and transfer issues that are important to them. As an example of federal/state sponsored projects, the center developed the National Database on Underrepresented Minority STEM Retention with a grant from the National Science Foundation (NSF). C-IDEA is currently funded to serve as a program evaluator on the NSF Louis Stokes Oklahoma Alliance for Minority Participation program.

For more information, please visit our web site: www.occe.ou.edu/cxde/

Center for Institutional Data Exchange and Analysis
The University of Oklahoma Outreach
1700 Arp Avenue
Norman, OK 73072-6405
(405) 325-2158; FAX: (405) 325-7309

Center for Public Management

James Thomas, M.A., Executive Director
Phone: (405) 325-0519
e-mail: jctomas@ou.edu

Instituted in 1994, the Center for Public Management (CPM) began as SATTRN, a satellite-training network for the Oklahoma Department of Human Services (DHS). In the nine years since its inception, SATTRN has expanded its capabilities and customer base. CPM has provided DHS the ability to incorporate video production, interactive videoconferencing, and web-based training into its repertoire, while expanding its conferencing and classroom training capabilities. With the up-dated technology of Televised Satellite Services under its umbrella and the newly formed e-business group, the talent for these services lies in house. The CPM team works on over 300 projects per year on behalf of DHS and the Oklahoma Department of Health.

Research efforts have expanded the role of CPM. Call centers for child support enforcement provide customer service assistance and community outreach to Oklahoma employers, clients and non-custodial parents. The effectiveness of the call center as an alternative first line to the caseworker is being reviewed as an appropriate reallocation of resources and outsourcing. A separate project started at the Oklahoma Health Care Authority and recently relocated to DHS studies the collection process between Medicare and HMO's. Thus far, this project has saved the state of Oklahoma millions of dollars.

CPM prides itself on its ability to adapt to a changing and evolving environment. The past nine years are a manifestation of this thought process and the future seems to seal the fact. For more information about these programs, please contact our office at (405) 325-0519.

Center for the Study of Small/Rural Schools

J. Thomas Owens, Ph.D., International Director
Jan C. Simmons, M.Ed., Director
Phone: (405) 325-1450
e-mail: jcsimmons@ou.edu

The Center for the Study of Small/Rural Schools is a cooperative effort between the University’s Colleges of Education and Continuing Education. Endorsed by the National Rural Education Association as one of its five recognized rural education research centers, the center assists small and rural schools in building and maintaining necessary knowledge bases. Founded on state-of-the-art research in the areas of school improvement and reform, restructuring, staff development, administration, and teaching, the center utilizes a multifaceted approach in assisting small and rural schools through workshops, training programs, surveys, needs assessments, and provision of technical assistance and various other services. Its clients include school boards, teachers, administrators, businesses, community groups, and rural organizations. Various areas addressed by the center include teaching methodology, school improvement issues, at-risk populations, multicultural and equity concerns, administrator preparation, school board training, educational technology, strategies for improving community-school relationships, and community development issues. The center also produces cost effective in-service videotapes that cover a wide range of relevant activities and which feature nationally recognized presenters.

Continuing Legal Education

Susan Ervin, M.A., M.S.W., Director
Phone: (405) 325-2891

The University of Oklahoma’s Colleges of Law and Continuing Education work cooperatively to provide Continuing Legal Education (CLE). CLE is offered throughout the year in convenient locations such as Oklahoma City, Norman, and Tulsa. Continuing Legal Education provides attorneys with CLE credit to fulfill their mandatory annual requirements as established by the Oklahoma Bar Association. These seminars are also excellent opportunities for paralegals, legal assistants, legal secretaries, and other professionals to obtain certification or simply to further their knowledge, performance, and marketability skills.

Learning opportunities also exist for mid-career professionals in health related fields who may participate in such professional development programs as the “Legal Issues Confronting Nurses” workshop. In addition, a variety of other activities are offered via contract with companies and organizations. Call 325-2891 for more information.

Education Programs

Bruce Roberts, D.M.A., Interim Director
Phone: (405) 325-5101
e-mail: broberts@ou.edu

In support of the College of Education, Education Programs delivers off-campus and self-support credit courses and cohort degree programs for undergraduate and graduate students, teachers, administrators, and school support personnel. Many of these courses are delivered in a traditional semester-hour format; others are organized in a compressed time-frame to meet the needs of participants with inflexible schedules. Special conferences and off-campus courses are offered in all areas of education including early childhood education, adult education, rural school administration, and comparative studies in international education.

Education Programs works with OU faculty and leading professionals in the field of educational administration, educational psychology, and community health to provide special conferences and workshops. School principal and school superintendent certification programs are available.

For more information on Education Programs call (405) 325-5101, or our website at www.cafe.ou.edu.

Engineering and Geosciences Programs

Bruce Roberts, D.M.A., Interim Director
Phone: (405) 325-5101
FAX: (405) 325-0860

In recognition of the critical need for career-long engineering and technical education, Engineering and Geosciences works closely with industry experts, professional engineering groups, and governmental agencies to extend the expertise of the faculties of the Colleges of Engineering and Geosciences to a wide range of U.B. based and international clients. Through its conferences, seminars, workshops, courses, and distance-learning programs, Engineering and Geosciences is also committed to the continuing education of engineers in all aspects of technical research and development. Investment and international economic development programs involving engineering and infrastructure projects are also pivotal new directions being taken by Engineering and Geosciences. Also significant are graduate level courses leading to degrees in petroleum and chemical engineering, computer
science, and geophysics which are held in international locations. Many of these courses are also delivered via electronic technology to industrial sites elsewhere in the state and beyond.

For more information call (405)325-5101, or check the website at www.cafe.ou.edu.

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**Evaluation and Testing**

**Belinda Biscoe, Ph.D., Director**
Phone: (405) 323-1107

Evaluation and Testing provides a wide range of testing services to more than 80,000 students in public, private, and home schools across the nation. As the largest comprehensive testing service in Oklahoma, Evaluation and Testing (E&T) assist educators in determining their assessment needs including test selection, scoring, data interpretation, and materials. As school budgets tighten, E&T has explored innovative ways for districts to make the most of their testing dollars. Whether scores are used for individual remediation or district-wide curriculum alignment, E&T continues to equip teacher, parents, and administrators with comprehensive assessment information.

Recently, E&T added new software and equipment that allows the design and printing of surveys and data accumulation forms. These services are available to schools and other educational entities. E&T will continue to meet the challenges of tomorrow with the most recent information, instruments, and technology to ensure educators this valuable educational tool will continue to be available to provide important insight into student progress.

Examples of current evaluation projects include:
- An evaluation of the National Reading Success Network program,
- An evaluation and research study of the Operation Aware drug prevention program,
- An evaluation of Oklahoma’s Learn and Serve America program,
- An evaluation of Oklahoma City Public School’s Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP),
- A local evaluation of the Eagle Wings Institute program designed to help juveniles convicted of felonies to become productive citizens,
- A research study describing the educational experiences of Oklahoma students attending rural elementary school districts,
- An evaluation of the Improving America’s Schools Conference.

The Evaluation and Testing staff members welcome the opportunity to discuss your assessment, evaluation and other information needs. For more information please call (405) 325-1971 or visit our website at http://et.ou.edu.

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**Executive Training~Team Quest**

**Carrie Reilly, M.H.R., Training Specialist**
**Mark Rose, M.H.R., Program Manager**
Phone: (405) 325-3248; FAX: (405) 325-7139

Executive Training ~ Team Quest (ETTQ) is a training and development program providing learning services for leaders, teams, and trainers in both public and corporate settings. ETTQ sponsors the Training and Development Certificate Program, operates the Challenge Course at the University, and conducts other training and leadership development.

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**Executive Training~Team Quest**

ETTQ can help you accomplish your goals. We equip teams and leaders with skills and tools to become more effective. Through continued interaction, we strive to create a partnership where you can expect sustainable change. Our unique approach addresses the needs of adult learners through training experiences that incorporate action learning exercises, self-assessments, focused discussions, and engaging classroom instruction.

We can help you increase your bottom line results when you invest in your employees. Through our programs, your employees will improve their communication skills, enhance their leadership abilities and develop better interpersonal skills. As a group, your employees will practice how to effectively problem-solve which results in a more efficient and productive organization. We are committed to making your time and investment a rewarding experience.

**Training and Development Certificate Program**

The Training and Development Certificate Programs provide new and experienced trainers, and training managers knowledge, skills, and practice to help them solve organizational training and performance issues. Based on competency research conducted by the American Society for Training and Development (ASTD), this program is a solid foundation for trainers. Using experiential learning as its primary instructional tool, these programs are led by highly experienced instructors and facilitators. Two certificate programs are offered: The New Trainer Program and The Experienced Trainer Program. These two certificate programs are conducted in Norman, Dallas, and Houston in the spring and fall of each year.

For more information, please contact us at:
Executive Training~Team Quest
The University of Oklahoma
106 Constitution, Bldg. 158
Norman, OK 73072
(405) 325-0464; FAX (405) 325-1632
www.OUropes.ou.edu

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**Federal Aviation Administration Programs**

**C. Haley, M. Ed., Project Manager**
Phone: (405) 954-6862

Since 1981, the University has assisted the Federal Aviation Administration (FAA) Air Traffic Academy in their efforts to train air traffic controllers at the Mike Monroney Aeronautical Center located in Oklahoma City. Administered by the College of Continuing Education, the University’s FAA/ATC Department has provided support to the FAA in training more than 48,000 air traffic controllers with a contract amount of approximately $275 million since the commencement of the contract in 1981. In addition to instructional services, the FAA/ATC Department develops new and revises existing training materials in conventional and computer-based instruction formats for domestic and international air traffic control facilities. The training and development services are provided at the FAA Academy in Oklahoma City by a staff of air traffic control instructors, instructional systems design specialists, educational specialists, computer systems analysts, and computer programmers as well as a highly qualified support and administrative staff. The University has worked with the FAA to provide international air traffic training and course materials to 22 different countries. Courses offered at the FAA Academy range from basic air traffic procedures for new hires to advanced/specialized training for air traffic facility managers and supervisors. It is anticipated that the University will continue in this capacity over the next five years.

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**Fine Arts and Architecture Programs**

**Bruce Roberts, D.M.A., Interim Director**
Phone: (405) 325-5101
e-mail: broberts@ou.edu

Fine Arts and Architecture Programs the resources of the Colleges of Fine Arts and Architecture to the lifelong learner through a variety of on- and off-campus credit and non-credit courses. In fine arts areas, talented OU faculty in the visual and performing arts offer their expertise in activities ranging from introductory arts appreciation courses to graduate-level research and composition.

For more information call (405) 325-5101, or check the website at www.cafe.ou.edu.
Health Promotion Programs

Craig W. Hofford, Ph.D., Director
Phone: (405) 325-1782; FAX: (405) 325-7126
e-mail: chofford@ou.edu

Health Promotion Programs (HPP) was incorporated into the University of Oklahoma’s College of Continuing Education in 1985 to meet the emerging needs in health promotion and wellness, particularly among native people throughout the United States and Canada. Health Promotion Programs provides an array of services including, but not limited to: conference planning and logistics, workshop development and facilitation, event organization and management, strategic planning, curriculum development, grant and report writing, and technical assistance. These services target community, worksite, school and health care organizational settings. The staff is dedicated to doing whatever it takes to assist organizations and communities towards the goal of facilitating healthy lifestyle behaviors and creating healthy environments.

Annually, Health Promotion Programs conducts the largest native population health and wellness conferences in North America, including the Wellness and Native Men and Wellness and Native Women conferences as well as Wellness and Spirituality. Other Native conferences have targeted specific health topics—for example, diabetes prevention and living well with disabilities. Health Promotion Programs also provides training in Native Fitness and Mental Health, and encourages/facilitates efforts towards empowerment within native tribes and communities. Health Promotion Programs regularly seeks to collaborate with the American Indian Institute, the Southwest Prevention Center, the National Center for Disability Education and Training, and other ‘sister’ programs within the Public and Community Services Division of the College.

For more information, call (405) 325-1790, or check our website at http://hpp.ou.edu/

Health Sciences Programs/Intersession/Special Projects

Susan Ervin, M.A., M.S.W., Director
Phone: (405) 325-2891

Students in Oklahoma City and those with inflexible schedules stand to gain from an array of credit and non-credit courses offered between regular semesters and in Oklahoma City locations. Health Sciences Center students and others in the greater Oklahoma City metropolitan area benefit from OU graduate and undergraduate credit courses offered throughout the academic year at the Health Sciences Center.

Intersession, held between regular OU semesters (December, May, and August), gives students the opportunity to complete a general education requirement and earn credit toward graduation or to study in specialized courses not offered during the regular semester session.

In conjunction with Oklahoma City Community College, this department coordinates OU undergraduate courses held at the community college. Offering these courses helps transfer students complete an associate’s degree and continue toward a bachelor’s degree at OU.

KGOU = KROU

Karen Holp, M.A., General Manager
Phone: (405) 325-3388

KGOU = KROU Radio is a full-service public radio station presented as a Community service by the College of Continuing Education at the University of Oklahoma. KGOU = KROU broadcasts 19 hours per day, 5 A.M. to midnight, to more than 12 Oklahoma counties. Together, the two stations serve nearly 1 million people in the Oklahoma City metropolitan area. With professional management staff, collegiate interns and community volunteers, KGOU = KROU provides a unique program service to the citizens of Oklahoma.

National Public Radio’s award-winning news programs, “Morning Edition” and “All Things Considered”, and award-winning talk programs “The Diane Rehm Show” and “Talk of the Nation” form the core of the program schedule. A variety of other informational programs from the BBC, Public Radio International and independent producers round out a schedule of 84 hours per week of news magazines, discussions, call-ins, in-depth interviews and features. These programs offer a diverse range of topics including breaking news stories, politics, business, medicine, science, literature and international affairs, as well as travel, entertainment and sports. The presentations move between serious current issues and civil discussion to humor, culture and the arts.

The station promotes the arts in all forms, with a focus on jazz, blues and world music during evenings and weekends. A wide range of local and national arts is spotlighted and promotion of area artistic, cultural and community events is a priority in the programming mix. The station is a major supporter of Jazz In June, a free concert series held annually in Norman.

With assistance from the University of Oklahoma, KGOU = KROU relies on listener, business and corporate support to maintain a high quality service for the communities it serves. For a current program schedule or information on becoming a financial supporter, tune to KGOU at 106.3 FM in Cleveland County or KROU at 105.7 FM in Oklahoma County, visit our web page at www.kgou.org, or call (405) 325-3388.

National Center for Disability Education and Training

Rebecca F. Cook, Director
Phone: (405) 325-0158

The goal of the National Center for Disability Education and Training (NCDET) is to further employment and career opportunities for people with disabilities which enhance their lives and the communities in which they live. NCDET provides employment training, technical assistance, and leadership development to organizations and businesses, and offers valuable resources to both public and private organizations.

Programmatic areas of (NCDET) are funded primarily through grants with the U.S. Department of Education and other federal and public entities. Programs draw upon instructors from several OU academic departments, as well as from the ranks of private management consultants, faculty from other leading universities, national and state government and legislative leaders, and executives and managers from successful public and private agencies.

NCDET programs include the Statewide Independent Living Center (SILC), Supported Employment Training, Career Specialist Orientation, and Social Security Benefits Assistance, among others.

For more information call (405) 325-0158 or 9006.

National Conference Logistics Center

Jan C. Simmons, M.Ed., Director
Phone: (405) 325-3760
e-mail: jcsimmons@ou.edu

The National Conference Logistics Center (NCLC) assists national, regional and local agencies and organizations in designing, developing, and coordinating conferences that meet the specific needs of their clientele. National and state agencies typically offer conferences in an effort to educate their clients and grantees regarding new programs, regulations, and best practices. International professional associations seek to help their members keep abreast of new regulations and innovations in their fields and to provide the opportunity for professional confering and networking. NCLC conducts conferences small and large (from 10 to 10,000) nationally and internationally.
NCLC calls upon the strengths of faculty and staff of the College of Continuing Education and the University of Oklahoma at large, in addition to a wide range of other resources and consultants in recommending appropriate expertise and presentation skills in various fields of study. The director and staff of NCLC have extensive experience and demonstrated success in designing content, providing logistical support, and conducting large national and international conferences of high impact, visibility, and national or international acclaim. NCLC provides the infrastructure, support, and expertise needed to successfully market and conduct your conferences.

National Resource Center for Youth Services

Peter Correia III, M.S.W., Director
Phone: (918) 660-3700

The National Resource Center for Youth Services (NRCYS) is committed to enhancing the quality of life of our nation’s youth and their families by improving the effectiveness of human services. NRCYS works first to identify topics crucial to the needs of child welfare and youth services agencies and then to develop and provide training, technical assistance, and resources to respond to these identified needs. NRCYS is dedicated to assisting agencies through the development of training and technical assistance opportunities that enable child welfare and youth services professionals to take full advantage of available effective practices.

NRCYS’ team of conference coordinators plans a minimum of ten state, regional, and national conferences each year. The National Resource Center is the national leader in the development and implementation of teen center training, technical assistance and assessment services in the families of youth. NRCYS has sponsored for over 10 years the only national youth leadership development conference, “Destination: Future,” for older foster and homeless youth.

In conjunction with training, NRCYS publishes and disseminates state-of-the-art materials in the areas of child welfare and youth services. NRCYS pursues model programs and training products from across the country to develop and market at reasonable costs to social service providers. Residential Child and Youth Care Professionals and Managing Aggressive Behavior, both developed and published by NRCYS, are the curricula of choice for emergency shelters, hospitals, therapeutic foster care programs, and community-based residential programs throughout the United States and Canada. The National Resource Center certifies more than 150 trainers each year to provide in-house training to their agencies on these two established programs. NRCYS also offers a national residential child care worker certification program for direct care staff working in shelters, group homes, and residential programs. To date, there have been over 1,000 workers certified through this program.

In addition to its own training programs, the center coordinates and manages a number of state, regional, and national training programs through contracts with state and federal public human services agencies. NRCYS manages the Juvenile Personnel Training Program (JPTP) which offers free training to Oklahoma’s public and private sector agencies. Since 1975, JPTP has been active in planning and coordinating statewide efforts to enhance the services provided to children and youth in Oklahoma.

NRCYS works with the Oklahoma Department of Human Services to plan and coordinate a comprehensive statewide foster and adoptive parent training program. The Resource Families Training Program (RFTP) provides pre-service and in-service training for prospective foster, adoptive and kinship parents. This program offers flexible scheduling at night and on weekends so that individuals committed to foster, adoptive, and kinship parenting can access the education they need. In addition to this program, NRCYS works with the Oklahoma Department of Human Services to provide training, technical assistance, and assessment services in the Oklahoma Independent Living Program. This program is designed to provide services to youth in foster care to assist them with their successful transition to adulthood.

Through a cooperative agreement with the U.S. DHHS Administration for Children and Families, the National Resource Center for Youth Development (NRCYD) operates under the NRCYS umbrella and provides free on-site training and technical assistance to state, local, and tribal publicly administered and supported child welfare agencies across the country. Each year, NRCYD provides technical assistance and training to over 5000 participants from all 50 states, Puerto Rico and the District of Columbia.

For more information direct inquiries to:
NRCYS
Schusterman Center
4502 E. 41st Street, Building 4W
Tulsa, OK 74135-2512
Phone: (918) 660-3700; FAX (918) 660-3737
www.nrcys.ou.edu

OU CCE Training and Research Center

Deborah S. Haddock, Director
Phone: (405) 573-9191
e-mail: dshaddock@ou.edu

The primary mission of the CCE Training and Research Center (CCE TRC) is to provide turn-key facility operations to our clients. CCE TRC can provide space, staff, furniture, office supplies, computer equipment, technical support, and other services tailored to fit our clients’ needs.

CCE TRC also hosts conventions, conferences, meetings, satellite downlink broadcasts, as well as traditional classroom training. Upon request, CCE TRC will create and provide custom instructor-lead training, including a wide variety of Franklin Covey seminars and technical, hands-on courses.

The CCE Training and Research Center operates the OU/DHS Training Center in Norman, Oklahoma. The OU/DHS Training Center is a 37,000 square foot facility that delivers approximately 60,000 training days of instruction per year. It houses training and administrative space for the CCE SATTRN contract and CCE’s National Resource Center for Youth Services. CCE TRC also provides ten remote computer-training labs for the SATTRN contract located throughout Oklahoma. The Center also administers facilities for the Center for Public Management, the CPM CARE Center and the CPM DDSD HIPPA Project.

OU Sooner Flight Academy

Pam Kennedy, M.H.R., Senior Program Development Specialist
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The OU Sooner Flight Academy uses aviation and flight to inspire students of all ages to learn advanced science, math, and engineering concepts. The Academy offers teacher training programs, ElderLearn classes for senior citizens, custom designed programs for math and science classes in public and private schools in grades K-12, and week long summer camp programs that run through June and July for children ages 4-18. Academy programs have produced measurable results in science and math scores and encourage students of all ages to pursue higher education degrees. Parents comment that their children are more confident and strive to do better in math and science after being exposed to the Academy’s programs.

For more information visit our website at http://flightcamp.ou.edu or call 405-325-1635.

Precollegiate Programs

Peggy Whaley, M.Ed., Director
Phone: (405) 325-6897

Precollegiate Programs provides academic experiences and leadership training for precollege students, grades 1-12. Programs include Summer Academies in Math and Science, Model United Nations of the Southwest, Summer Publications Workshop, ACT and PSAT Preparation Courses, Mini
Horizons Unlimited

Horizons Unlimited is an intensive one week summer program for the academically gifted and talented youth. The philosophy of the program is to stimulate academically superior students with intellectual challenges and exciting learning experiences. The students discover new concepts, philosophies and perspectives as they enjoy a preview of the riches available on a major college campus. Gifted and talented students can take part in enrichment courses offered at the University throughout the school year. These programs are one- or two-day programs taught by University faculty.

Thunderhawk

Thunderhawk is a leadership training program for cheerleaders and dance teams. 2004 marks its 51st year under the sponsorship of the University of Oklahoma and the National Cheerleaders Association.

Public Service Institute

John E. Steffens, Ph.D., Executive Director
555 E. Constitution St.
Norman, OK 73072

Created in 1996, this think tank of ideas brings together stakeholders and policymakers to talk about emerging education, health, economic, and social policy issues. These open forums allow leaders to discuss pertinent strategies for approaching what needs to be done to accomplish forward progress on pressing problems. For more information call (405) 325-1731.

Region VII Comprehensive Center

John E. Steffens, Ph.D., Executive Director
Belinda Biscoe, Ph.D., Director

The Region VII Comprehensive Center—serving the states of Illinois, Indiana, Kansas, Missouri, Nebraska, and Oklahoma—focuses on promoting systemic educational reform; transforming teaching and learning within schools and other contexts; building the capacities of Region VII educational institutions and others; coordinating its activities with other entities charged with providing services to its clientele; and evaluating the impact of center services and activities to ensure the maintenance of quality standards.

Since October 1995, the Region VII Comprehensive Center has been promoting student learning in the region by providing a different approach to technical assistance. To help states, school and school districts move to a new way of thinking about school reform, the Region VII Comprehensive Center has developed a tri-level continuum of technical assistance services. Level I services include activities such as one-time information dissemination workshops, newsletters, website and other mass distribution services. Level II services typically serve regional, district, and state needs focusing on service delivery, through workshops, teleconferencing, computer conferencing, video conferencing, etc., while Level III services consist of more intensive high impact technical assistance, i.e., strategic planning, focusing on vision, reform and outcomes targeting multiple educational systems and multiple strategies supported with intensive professional development with follow-up that incorporates best practices and research.

As part of the national technical assistance and dissemination system, the Region VII Comprehensive Center assists states, LEAs, tribes and schools served under the Elementary and Secondary Education Act to integrate Federal, State, and local education programs in ways that contribute to improving schools and entire school systems. The center’s initiatives to assist state and local education agencies in developing coherent strategies for improving teaching and learning for all children are central to its mission and are coordinated with the U.S. Department of Education. For more information call (405)325-1729 or (800)228-1766, or visit the website at http://tel.occe.ou.edu/comp.

Senior Adult Services

Susan Ervin, M.A., M.S.W., Director
Phone: (405) 325-3488

Senior Adult Services provides educational and enrichment opportunities for older learners facilitated through various programs.

Mornings with the Professor

This exciting program provides older learners the opportunity to continue their learning experiences with some of OU’s most interesting faculty. In this series, OU faculty, select a favorite topic and volunteer their time to participate in this long-running and successful program.

Elderhostel

Elderhostel is an educational adventure for older adults looking to experience exciting and unique adventures. The later years should be a time of new beginnings, opportunities, and challenges. Elderhostel offers you a way to keep expanding your horizons with people who share an interest in the same areas as you. Elderhostel is a nonprofit, educational organization offering inexpensive, short-term academic programs hosted by educational institutions around the world. You’ll stay on college and university campuses, conference centers, marine biology field stations, and environmental study centers and enjoy the cultural and recreational resources that accompany them. Some of our educational institutions that do not have residential facilities or whose residence halls are not available will utilize commercial sites for their programs.

The University of Oklahoma Book Club

Let Senior Adult Services take you through some of the greatest works in literary history. This special series will meet monthly, covers eight different works, and will include stimulating conversation. Led by Dr. Rufus Fears from OU’s Classics department, this program has proved to be one of Senior Adult Services most popular.

Grand Camp

Grandparents and grandchildren come together at one of Oklahoma’s beautiful state parks to experience Native American art, music, culture, and heritage. Spend the week in comfort at either Roman Nose Lodge in Watonga, or Western Hills Guest Ranch in Wagoner.

Senior Seminars

Designed to offer seniors an avenue for continued learning of a specific topic, Senior Seminars is an exciting way to keep adult learners interested in a specific subject. Offered each fall and spring, this series lasts four-eight weeks and topics change each semester.

Elderlearn

Elderlearn is a time to come together to share one day learning a specific topic. These courses are taught by knowledgeable and entertaining University of Oklahoma faculty.

For more information on any Senior Adult Services program call (405)325-3488 or visit our website at www.occe.ou.edu/senioradult.

Southwest Center for Human Relations Studies

Hisauro Garza, Ph.D., Director
Phone: (405) 292-4172

The Southwest Center for Human Relations Studies is one of the nation’s premier institutions focusing on issues of race and ethnicity. The Southwest Center is devoted to studying and resolving human conflict while
promoting understanding and cooperation among people of different racial, ethnic, religious, and economic backgrounds. Since its beginning in 1961, the Southwest Center has brought together leaders from business, industry, education, government, labor, the media, and community-based agencies and organizations to address important issues of cultural diversity and to explore methods to affect equal opportunities in various areas of our society. In addition, the Southwest Center compiles and disseminates knowledge about culturally diverse populations and critical issues affecting them, and provides client-based training programs focusing on cultural diversity and cross-cultural communications in educational and workplace settings. Annually, the Southwest Center holds the National Conference on Race and Ethnicity in American Higher Education (NCORE)—the leading and most comprehensive national forum on issues of race and ethnicity in higher education, drawing in excess of 1,800 participants from virtually every state in the United States and several foreign countries. NCORE brings together all the key stakeholders from students, to faculty, to recruiters, to counselors, to high-level university administrators to dialogue in-depth on ways of expanding opportunities for educational access and success by culturally diverse, traditionally underrepresented populations.

For more information call (405) 292-4172.

Southwest Prevention Center

E. Joe Wiese, M.S., L.P.C., C.P.S., Director
Phone: (405) 323-1454

Formerly known as the Southwest Regional Center for Drug-Free Schools and Communities, the Southwest Prevention Center (SWPC) strives to cultivate healthy, drug-free environments through community, school and organizational capacity building.

SWPC provides training, technical assistance, materials development, program evaluation, and information dissemination to schools, community-based coalitions, policy makers and other social service and professional agencies.

The Center’s most prominent grant project, the Southwest Center for the Application of Prevention Technologies (Southwest CAPT), is funded by SAMHSA’s Center for Substance Abuse Prevention (CSAP). The Southwest CAPT serves as a catalyst for knowledge transfer and prevention research application across the Southwest region, linking scientifically defensible research to practice within states and communities. SWPC brings to this effort its ability to create and sustain collaborative initiatives in which systems at multiple levels share information, experiences and strategies. The Southwest CAPT project also relies upon the SWPC’s extensive experience in tailoring technologies for multiple audiences through a variety of delivery systems, both conventional and electronic. By empowering positive growth and change in communities across the Southwest region, SWPC staff has earned a national reputation for excellence. For more information call (405) 325-1454, or visit the website at [http://www.swcapt.org](http://www.swcapt.org).

Television and Satellite Services

Chris Turner, Special Projects Producer/Marketing
Phone: (405) 325-1618
e-mail: cturner@ou.edu

Television & Satellite Services (TVS-Ops) provides a complete video production facility. With concept-to-completion capabilities TVS-Ops offers a broadcast ready on-line control room and studio. Their digital (linear and non-linear) editing includes state of the art Avid editing as well as the Media 100 for any post production and computer graphic needs. TVS-Ops offers Satellite uplink and fiber-optic transmission capabilities to distribute events and information from the campus to the entire world. Their satellite downlink and connection with the State Regents fiber-optic network offers access to information and events from all over the planet. The professional staff provides a wide range of audio and video production services including all aspects of scriptwriting, coordination of electronic field, studio, post production (editing) and distribution. TVS-Ops provides

the OU faculty and campus a valuable recourse through its capacity to tape satellite programming off-the-air for viewing or utilization at a later date. For more information or to contact one of the TVS-Ops staff please call (405) 325-6888.

U. S. Postal Service National Center for Employee Development

John Ross, B.A., Senior Contract Coordinator
Phone: (405) 325-4769

Under contract with the U.S. Postal Service, CCE provides instructors and 193 personnel for the Norman-based U.S. Postal Service National Center for Employee Development, the sole technical training facility for the USPS and one of the most modern training centers in the world. Instructors teach hands-on maintenance courses on computer-driven mail processing equipment, electronics, building support systems, and postal vehicles. Offering more than 70 courses, varying in length from two days to nine weeks, the center trains more than 60,000 postal technicians a year through resident and distance learning teletraining.

For more information call (405) 366-4769.

Workforce Oklahoma Training Institute

Edward L. Gregorio, M.Ed., Director
Phone: (405) 325-1443
FAX: (405) 325-3862

The Workforce Oklahoma Training Institute provides assistance to the Oklahoma Workforce Development system in improving quality by creating career development programs and increasing the knowledge and skills of those professionals engaged in the development of Oklahoma's labor force. The primary focus of the Institute is the provision of capacity building for the Oklahoma Career Center system. The Career Centers are the organizing vehicles for transforming the fragmented array of employment and training programs in the state into a comprehensive and integrated service delivery system that will meet current and future employment, education and training needs of Oklahoma's job seekers and employers. The Oklahoma Career Centers are rich in occupational and labor market information and offer customers a choice of available services and service providers.

A second focus of the Institute is to provide training and capacity building for staff employed under the Workforce Investment Act (WIA) to implement and operate programs authorized under the Act. The Institute also extends technical assistance to the 12 Service Areas under WIA that assists in the development of employment and training policies and procedures. Although WIA staff members are the primary recipients of this training and assistance, staffs from other state and local agencies, which are Partners in the Career Centers, are afforded the opportunity to attend the training sessions also.

The Institute currently offers three certificate programs one of which is a professional certificate and the other two paraprofessional. The Employment and Training Professional Certificate offered by the Institute is co-sponsored by the Workforce Oklahoma Employment and Training Association. The second certificate program, the Career Development Facilitator certification, is coordinated with Oakland University and the American Society of Training and Development. The third program offered is a Workforce Development Quality Leader certificate. All three certificate programs prepare staff to work in career development environments.
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Administrative Officers
Joan K. Smith, Ph.D., Dean and Director of Education Professions Division
Christine K. Ormsbee, Ph.D., Associate Dean, and Associate Director of Education Professions Division
M. Jayne Fleener, Ph.D., Associate Dean, Graduate Programs and Research

Degrees Offered
• Bachelor of Science in Education
• Master of Education
• Master of Education/Master of Library and Information Studies
• Doctor of Philosophy
• Doctor of Education

General Information

HISTORY
One of the stated purposes of the University of Oklahoma when founded in 1890 was the study of the “art of teaching.” However, education as a field of study did not become a priority until Stratton D. Brooks assumed the presidency of the University. Under Brooks’ leadership, education first became a field of study (1909), then a school of study in the College of Arts and Sciences (1910), and finally an independent school (1920). Brooks brought Warren Waverly Phelan from Baylor University in 1912 to serve as the first director of the school. Phelan served until 1926.

In 1929, the School of Education became the College of Education under the direction of Ellsworth Collins, who had been director of the School of Education. He served until 1945, and six deans have served the College of Education since Collings. The current dean is Joan K. Smith, appointed in 1995.

The College of Education was reorganized in 1986 into four units: the Department of Educational Leadership and Policy Studies, the Department of Educational Psychology, the Department of Instructional Leadership and Academic Curriculum, and the Division of Teacher Education. The faculty annually instruct more than 1,000 undergraduate and 800 graduate students who are pursuing degrees and/or certification in education in one of the four organizational units of the College. The College offers master’s, Ph.D., and Ed.D. degrees; it is second only to the College of Arts and Sciences in the number of doctoral degrees awarded.

MISSION STATEMENT
The primary mission of the College of Education is to promote inquiry and practices that foster democratic life and that are fundamental to the interrelated activities of teaching, research, and practice in the multi-disciplinary field of education.

PRIORITIES OF THE COLLEGE OF EDUCATION
• Develop exemplary teacher certification programs.
• Establish excellence in graduate education.
Increase research and scholarly productivity of faculty and doctoral students.
Programs and special facilities of the College.

COLLABORATION WITH PUBLIC SCHOOLS
The University of Oklahoma offers a large number of programs designed to support education for grades K–12. These include on-campus programs for teachers and students, collaborative research projects, and programs delivered on-site in public schools. For more information about these programs and services contact the Office of the Dean, College of Education.

PROGRAMS AND SPECIAL FACILITIES OF THE COLLEGE

TE-Plus Teacher Education Program
The College of Education’s teacher preparation program is “TE-PLUS — Teacher Education: Professionalism, Leadership, Understanding, and Scholarship.” This extended program includes both undergraduate and graduate coursework and experiences. In the undergraduate component, students complete general education requirements and the majority of their professional education courses and specialized education courses, including extensive field experiences in the schools. At the end of this component, students receive a B.S. in Education. During the graduate component, students are admitted to a master’s degree program or certification only program and complete their certification requirements including their student teaching internship and from 3-12 graduate credit hours. When students finish all certification requirements, they are recommended to the State Department of Education for licensure. While students are not required to complete the master’s degree, they are encouraged to do so for professional growth and development. (The Graduate College allows a five-year time period for masters program completion.)

While TE-PLUS is designed as an extended program, a student may finish requirements earlier through advanced standing exams as well as summer school enrollment.

The Oklahoma Research Center for Continuing Professional and Higher Education
The mission of the Oklahoma Research Center for Continuing Professional and Higher Education is to “expand the scholarship and improve the performance and practitioners in the practice of continuing education.”

In carrying out its mission, the center involves faculty and students from various colleges and administrative units of the University in interdisciplinary research projects. The center was established in 1987 through a $1 million grant from the W. K. Kellogg Foundation of Battle Creek, Michigan.

The Oklahoma Writing Project
The Oklahoma Writing Project, directed by Priscilla Griffith, is devoted to improving the quality of composition instruction in elementary and secondary schools. The program, which has trained more than 1355 educators, is part of the National Writing Project, a network of university school programs across the nation. After the educators are trained, they travel to schools throughout the state, presenting in-service workshops to assist other educators in upgrading students’ writing skills.

Zarrow Center for Learning Enrichment
The Zarrow Center for Learning Enrichment at the University of Oklahoma studies transition, self-determination, and post-secondary education of youth and adults with disabilities and those at risk for school failure. Masters and doctoral students who study at the Zarrow Center learn skills to become future educational leaders. Faculty and students disseminate their work through books, articles, teaching materials, classes, workshops, and professional presentations. An endowment from the Zarrow Family Foundation of Tulsa funds the Zarrow Center activities.

FACILITIES

Center for Educational Development and Research
The College of Education has established a research center (CEDAR) offering assistance to faculty as well as students of the college in the development of research proposals and in the design and conduct of research projects. The CEDAR is located in Collings Hall.

Center for Educational and Community Renewal
The Center for Educational and Community Renewal is a consortium of school-university-community partnerships committed to improving student achievement and democratic citizenship through authentic teaching, technology integration, and cooperative networking.

Career Services
The College of Education, cooperating with Career Services, assists qualified students and alumni in locating and securing teaching positions. School administrators are cordially invited to make full use of these services in their efforts to employ competent teachers for the school systems they administer.

The Counseling Psychology Clinic
The Counseling Psychology Clinic is a training facility for the Counseling Psychology, Community Counseling, and School Counseling graduate programs and offers instructional, counseling and assessment services to residents of central Oklahoma. The clinic is administered by the Department of Educational Psychology, College of Education, University of Oklahoma.

Field Experience Office
All students in the College of Education are required to have extensive field experience as a part of their professional training; these activities vary in terms of time and place. The Field Experience Office, located in Room 138, Ellsworth Collings Hall, coordinates all field-based educational experiences.

The Institute of Child Development
The Institute of Child Development, which serves approximately 50 children from the Norman and University communities, has been accredited by the National Academy of Early Childhood Programs. Working with children from 2–5 years old, the institute meets a variety of strict standards, including providing activities appropriate for preschool children, having an adequate student-staff ratio, meeting stringent health and safety standards, and providing opportunities for parental involvement. The OU Institute of Child Development was in the first group of licensed child care facilities in the United States to be accredited.

Reading Education Center
The Reading Education Center provides services to University students, faculty and staff members, and to school systems and individual students throughout the state. Services are offered through courses to University students and staff who would like to improve their reading vocabulary, comprehension and/or reading rate. Public school personnel from any part of the State of Oklahoma may refer children to the Reading Education Center for diagnostic testing and corrective program prescriptions. The diagnostic testing program is designed to determine the areas of reading in which the child is having difficulty and the specific problems. Corrective prescriptions are provided when the child is enrolled for individual tutoring in the Reading Education Center. Supplementary fees are charged for these services; a fee schedule may be obtained from the Department of Instructional Leadership and Academic Curriculum.

Science Education Center
The Science Education Center conducts research in the teaching and learning of science; provides instruction in the latest techniques and materials in the teaching of science in kindergarten, elementary, middle, and secondary schools; and assists state agencies in the introduction of science into the classrooms of the public schools. The center also has participated in national curriculum studies.

For the undergraduate student in the College of Education, the Science Education Center makes possible an approach to learning in which teacher and students participate in discovery. The center has been responsible for leadership in science education and for providing future teachers with a strong science background for the profession.
Student Services Center
The Student Services Center advises undergraduate education majors and prospective majors on all matters pertaining to college admission, retention, and graduation requirements. This office is responsible for maintaining records on all undergraduate students majoring in education prior to, as well as after, their entry into the College of Education. Students are invited to consult the staff of this office concerning their academic status or any requirements pertaining to graduation. The office is located in Room 137, Collings Hall, and is open Monday through Friday.

Student Organizations

THE ASSOCIATION OF BLACK EDUCATION MAJORS
The Association of Black Education majors was officially recognized by the University as an organization during the 1996-97 academic year. Membership is open to all students, regardless of race or ethnic background. The association provides mentoring to incoming freshmen whose interests are in education and hosts workshops for high school seniors who have an interest in becoming a teacher.

THE COUNSELING STUDENT ASSOCIATION
The Counseling Student Association aids the entry of graduate students into the professions of counseling psychology, community counseling, and school counseling through such activities as mentoring new students, arranging colloquia, and providing input into program curricula and governance.

DEAN’S STUDENT ADVISORY COMMITTEE
Student leaders meet with the dean once a month to discuss current issues in the college and ways to improve their educational experience. Students also have the opportunity to participate in various events throughout the year.

DIVERSITY APPRECIATION GROUP
Diversity Appreciation Group (DAG) is a part of the Counseling Student Association. Its main objective is to create a forum in which we can explore and discuss our beliefs, values and behaviors in relation to others who are different from us in terms of age, gender, race, ethnicity, religion, sexual orientation, physical and mental abilities, socio-economic status, and other differences.

EDUCATIONAL TECHNOLOGY CLUB
The Educational Technology Club (ETC) is an organization for students and others interested in educational technology. The purpose of the organization is to link knowledge of the University with that of the surrounding area and to provide a network of technology information.

KAPPA DELTA PI
Kappa Delta Pi is the international honor society in education. Membership requires at least 50 hours of coursework completed with a 3.40 cumulative grade point average. This society includes not only undergraduates and graduates in the College of Education, but also those students in the College of Arts and Sciences who are working on requirements for K–12 or secondary teaching certification.

NATIVE AMERICAN EDUCATORS
Native American Educators is a student organization interested in the education of Native American people at all levels. It is involved with community service and other activities that contribute to the professional growth of its members. Members are education majors desiring to expand their knowledge of Native American education.

THE STUDENT COUNCIL FOR EXCEPTIONAL CHILDREN
The Student Council for Exceptional Children is a student organization which provides professional growth opportunities through field experiences and lectures.

STUDENT OKLAHOMA EDUCATION ASSOCIATION
The long-term goals of the Student Oklahoma Education Association (SOEA), the organization for future teachers, are to have a positive influence on policies in the college and to be a link between the students and the college. The main purpose of SOEA is to prepare students for their first teaching position. Membership in this organization can lead to membership in the parent organization, the Oklahoma Education Association, as well as professional teacher associations in other states.

Scholarships and Financial Aid

UNDERGRADUATE SCHOLARSHIPS
- Frank and Diane Agar Scholarship
- Blanche Honaker Brakebill Scholarship
- Leah Copass Brakebill Scholarship
- College of Education Alumni Association Scholarship
- College of Education Associates Award
- College of Education Undergraduate Scholarship Award
- Judith Bratcher Crockett Scholarship in Education
- Carl P. and Erma W. Dunifen Education Scholarship
- Delta Kappa Gamma Society International Scholarship
- Garnett Fittro Award
- Charles E. Grady Memorial Scholarship
- Dawn M. Glitsch Memorial Scholarship
- Virginia Hallum Trust Award
- Clara Rusk Hastings Scholarship Trust
- Elizabeth Raye Hazelwood Scholarship
- Joanne Hendrick Early Childhood Endowed Scholarship
- Diane Holt-Reynolds English Educator Scholarship
- Michael Langenbach Scholarship
- Sandra O’Brien Scholarship
- Oklahoma State Regents for Higher Education Future Teacher Scholarship Program
- Parks Memorial Scholarship
- Mary and Erin Reed Scholarship
- Sherry S. Steele Scholarship
- B.H. Taylor Scholarship
- Teach America Tomorrow Award
- Nadine R. Vincent Scholarship Fund
- Lila Merle Welch Memorial Fund

GRADUATE SCHOLARSHIPS
- A.E. Clark Memorial Graduate Scholarship
- College of Education Graduate Scholarship
- Herbert Hengst Scholarship
- Paul F. Kleine Scholarship
- Michael Langenbach Scholarship
- William B. Ragan Memorial Scholarship
- The Kialas and Becky Rao Scholarship in memory of Dr. Gerald Kidd
- Will Rogers Scholarship
- Dr. Glenn Snider Education Scholarship Fund
- Sherry S. Steele Scholarship Fund
- Fred Wood Scholarship

For more information on scholarship and financial aid opportunities, consult A Guide to Scholarships & Financial Aid available in the Office of Prospective Student Services.

Undergraduate Study

General Information

STEPS IN ENROLLMENT

High School Students
If you are a high school graduate or soon will graduate, contact: Office of Admissions, 1000 Asp Avenue, Norman, OK 73019-4076, (405) 325-2252.

The applicant should carefully follow all instructions provided with the application. Information about tuition, fees, housing and student affairs will also be provided by the Office of Prospective Student Services.
Upon notice of acceptance to the University, a student is eligible to enroll. Instructions as to date and procedure will be provided either with the letter of admission or under separate cover.

All students desiring to major in education,—so long as they enter the University directly from secondary school—are enrolled through the University College.

After successful completion of all admission requirements, students may then apply for full admission to a teacher education program in the College of Education or pursue a teacher education program through another degree-recommending college of the University. Students in the College of Arts and Sciences who are majoring in one of the social sciences, sciences, English, foreign languages, and mathematics may also earn an Oklahoma teaching certificate. For information concerning teaching certificate programs, consult an academic counselor in the College of Arts and Sciences. Students in the College of Fine Arts who are majoring in instrumental or vocal music education may earn an Oklahoma teaching certificate. For information concerning teaching certificate programs, consult the College of Fine Arts. Further information on the College of Education’s admission requirements is given on the following pages of this catalog.

Transfer Students
If you wish to major in education and will be a transfer student from another college or university, contact: Office of Admissions, 1000 Asp Avenue, Norman, OK 73019-4076, (405) 325-2252.

You may be admissible either to the University College or directly to the College of Education, depending upon whether you have accumulated sufficient hours and meet other requirements for admission to the College of Education.

Admission
Students at the University of Oklahoma have three levels of admission into the TE-PLUS teacher education program.

I. Students at the University of Oklahoma are eligible for admission to the College after they have:
   1. a minimum of 24 semester hours earned from an accredited institution of higher learning;
   2. a minimum of 2.75 combined retention grade point average on all coursework attempted;
   3. declared major in education.

II. Students are eligible to apply for full admission to a teacher education program after they have:
   1. a minimum of 30 semester hours from an accredited institution of higher learning to include the following 24 hours as defined by the State Regents with a grade of C or better: English (Composition and Literature) ENGL 1113 and 1213, or their equivalents—6 hours; College Algebra—3 hours; American Government—3 hours; Humanities—3 hours; Social and Behavioral Sciences—3 hours; Natural Sciences—3 hours;
   2. an OU retention and combined retention 2.75 grade point average on all coursework attempted;
   3. successful completion of the PPST (Pre-Professional Skills Test) or OGCT (Oklahoma General Education Test) unless otherwise exempted by a 3.00 combined retention grade point average on all liberal arts and sciences coursework.

Admission to a teaching certificate program requires meeting particular program requirements, submission of an application, submission of an essay, and an interview with a certificate committee. Please note that the availability of programs and resources is limited. Upon an affirmative recommendation by the certificate committee, applicants will be granted full admission to the teacher education program. Students must be admitted to a program prior to enrollment in the first education course. Students not admitted may be advised to gain appropriate experience to improve their academic records prior to requesting admission at a later date.

III. Students must be admitted to a master’s degree program or certification only program to enter the graduate certification component. For full admittance to the Graduate College, students must achieve a 3.00 grade point average on the last 60 hours of undergraduate work; for conditional admittance, students must achieve a 2.75-2.99 GPA on the same 60 hours. Students also must meet the admission requirements of the master’s program they wish to enter.

All transfer students shall meet the same requirements for admission as students entering the College of Education from other divisions of the University of Oklahoma. Transfer students who have not earned a minimum of 24 semester hours with a combined retention grade point average of 2.75 or better may make application to the University of Oklahoma, and, if admitted, must satisfy the requirements for admission to the College of Education while enrolled in the University.

Academic credit from any division of the University of Oklahoma—Norman campus, Health Sciences Center, OU-Tulsa, or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned in any of these divisions are included in the OU retention and cumulative grade point averages for purposes of admission or readmission to the University, and to the individual colleges within the University.

Admission requirements are subject to change on an annual basis.

Retention

a. Students must maintain an OU retention and combined retention grade point average of 2.75 or higher in all undergraduate coursework and a minimum 3.00 grade point average in all graduate coursework attempted.

b. Students must maintain a minimum of 2.75 grade point average in professional and specialized education courses with no grade less than a C and must maintain a minimum of 3.00 grade point average in graduate, professional and specialized education courses, and earn no grade less than a B.

c. Students must earn a C or better in Communication 1113 or its equivalent.

d. Students whose OU retention or combined retention grade point average at the undergraduate level falls below 2.75 will be placed on academic retention notice for one semester. Any student who fails to raise the OU retention or combined retention grade point average to 2.75 during the semester will be subject to dismissal from the College.

e. Students who have not earned an OU retention and combined retention grade point average of 2.75 after the completion of 60 semester hours will be dismissed from the College.

f. Students will be withdrawn from courses for failing to observe prerequisites and corequisites. Continued disregard of prerequisites and corequisites is grounds for dismissal from the college.

g. Coursework more than 10 years old in the teaching specialization and professional education may not be credited toward the completion of a teacher education degree and/or certificate program. On request of the student, however, coursework over 10 years old may be reviewed by the appropriate certificate committee for possible credit toward the completion of a teacher education degree and/or certificate program.

h. A student has six years to complete a teacher education degree and/or certificate program. After the six-year period, a student must seek readmission to that program and meet the catalog requirements at the time of readmission.

Requirements for Graduation

The requirements for graduation from the University of Oklahoma through the College of Education are:

1. Satisfactory completion of the general education requirements of the College and the University.
2. Satisfactory completion of the basic undergraduate professional sequence of courses required of all education majors.

3. Satisfactory completion of the undergraduate specialized education requirements pertaining uniquely to the standard teaching certificate program a given student may pursue.

4. A minimum of 124 semester hours inclusive of general education, professional education, specialized education and elective courses.

5. OU retention and combined retention grade point averages of 2.75 or higher.

To be certified, students must complete baccalaureate studies and the graduate certification component. To enter the graduate certification component, students must have been admitted to the Graduate College in good standing (3.00 on last 60 hours) or conditionally (2.75–2.99 on last 60 hours).

**General Education**

General education introduces the student to the arts, sciences and humanities as knowledge taken to be worthy in and of itself; as being valuable to the citizen participating in American democracy; as knowledge useful to all in a technological society; and as an introduction to the fields of knowledge exposing the college student to various career options.

General education is based on those studies known as the liberal arts and liberal sciences, which embrace the broad areas of the humanities, mathematics, the biological and physical sciences, the social and behavioral sciences and oral and written communication skills.

A minimum of 55 semester hours in general education is required from the following areas:

- **Communication Skills**: minimum of nine semester hours with a grade of C or better to be selected from courses which emphasize student proficiency in the use of the English language, including English 1113, 1213, and Communication 1113, or their equivalents.

- **Mathematics**: minimum of one course with a grade of C or better.

- **United States History and Government**: minimum of six semester hours including History 1483 or 1493 and Political Science 1113 with a grade of C or better.

- **Science**: minimum of one course in the physical sciences and one course in the biological sciences with a grade of C or better in one of the courses.

- **Behavioral Sciences**: minimum of one course to be selected from Psychology 1113, Sociology 1113, or Anthropology 1113 with a grade of C or better.

- **Arts and Humanities**: minimum of three courses, selected from three of the four areas; must address the study of significant ideas of western civilization as manifested in art, literature, music and philosophy, such as: Art History 1113, English 2413, Music 1113 and Philosophy 1013 with a grade of C or better in one of the courses.

- **Contemporary World Culture**: minimum of one course.

- **Foreign Language**: 0–10 hours. This requirement may be satisfied by the successful completion of two college-level courses in a single foreign language or two years in a single foreign language in high school, and must demonstrate conversational skills at a novice-high level in a language other than English, as required by the Oklahoma State Regents for Higher Education.

- **Non-Western Culture**: minimum of three semester hours to be taken from the approved general education list (adviser approved).

- **Senior Capstone Experience**: minimum of three semester hours (adviser approved).

**ELECTIVES MAY BE TAKEN FROM THE ABOVE OR FOLLOWING AREAS:**

- **Practical Arts**: electives may be selected from business, computer science, fine arts, human development and library and information studies. A maximum of three credit hours in fine arts courses that are studio or performance oriented, but which are not part of preparation toward specific occupational and professional objectives, may be counted.

- **Health and Exercise Science**: electives may be selected from this area.

**Education**: only courses, 2000-level or higher, which are not a part of preparation toward specific education occupational or professional objectives may be counted.

Please refer to the respective program listings for specific general education requirements.

**Professional Education**

Professional core education courses are EDFN 3003, EIPT 3473, EIPT 3483, EDSP 3054, EIPT 3043, EDUC 5920 and a graduate research course.* EDFN 3003 is the initial course in the sequence. Field experiences are required with EDFN 3003, EIPT 3483, methods courses, and the student teaching internship.

*Education 5920 and a three-hour research course are completed in the graduate certification component. Admission to the student teaching internship semester requires admission to the Graduate College and satisfactory completion of all baccalaureate degree requirements.

 Continued progress in the professional sequence is dependent upon successful completion of prerequisites.

(A laboratory fee, covering materials and equipment use, is charged of all students taking EIPT 3043, Learning with Educational Technologies.)

**Specialized Education**

Specialized education requirements vary according to the type of standard teaching certificate program. The requirements for each certificate program are printed in convenient checklist form, with general education and basic professional sequence requirements also included. These checklists are available in the Student Services Center, Room 137, Ellsworth Collings Hall. Students must obtain checklists for their respective programs and consult the advisers appointed to them.

All students, whether they are in some other college of the University of Oklahoma, another institution of higher education or in secondary school, are invited to consult the Student Services Center on any matter relating to admission or retention in a teaching certificate program.

Continued progress in the specialized sequence is dependent upon successful completion of prerequisites.

**Other Requirements**

**READMISSION**

Graduation requirements for each student are ordinarily those in effect at the time of his/her initial enrollment after admission to the College of Education. A student in the extended program has six years to complete a teacher education degree and/or certificate program. All professional education coursework transferred to the University of Oklahoma is credited toward the completion of a teacher education degree and/or certificate program after initial admission. After the six-year period, a student must seek readmission to that program and meet the catalog requirements at the time of readmission. In addition, coursework more than ten years old in the teaching specialization and professional education typically is not credited toward the completion of a teacher education degree and/or certificate program. On request of the student, however, coursework over 10 years old may be reviewed by the appropriate certificate committee for possible credit toward the completion of a teacher education degree and/or certificate program.

**TRANSFER WORK**

All professional education coursework transferred to the University of Oklahoma and submitted by the student as the equivalent of required courses in any teacher certificate preparation program will be subject to the approval of the College of Education.

**Academic Residence**

A student shall satisfy the minimum academic residence requirement by enrolling in courses offered on the University’s Norman campus, or at a residence center, while a student in the College of Education. The student may elect one of two options as representing the minimum requirement:
1. Completing in residence 45 of the last 60 hours prior to graduation after being fully admitted to their teacher education program; or,
2. Completing in residence the last 30 consecutive hours prior to graduation after being fully admitted to a teacher education program. Residency begins with full admission to teacher education.

**ADVANCED STANDING, CORRESPONDENCE AND/OR EXTENSION**

Credit granted through advanced standing may be recognized as representing residence study. Please reference the Admissions section of this catalog for further information on the regulations governing advanced standing credit. Credit earned through correspondence cannot be used to meet the basic professional sequence requirements.

The maximum allowable accumulation of advanced standing, correspondence and extension study credit in general education and specialized professional education shall be one-fourth the total semester hours required in each category.

University of Oklahoma regulations pertaining to the acceptance of correspondence and extension credit from other institutions must be met before such work may be applied toward the degree.

**CREDIT HOUR LOAD**

**Undergraduate Students**

Sixteen semester hours constitute a normal enrollment. Students may enroll for 17 or 18 semester hours if they have grade point averages of 2.50 or above. Students with grade point averages of 3.00 or above may enroll for 19 or 20 semester hours if they have the approval of their advisers and the dean of the college. Students with grade point averages of 3.50 may take more than 20 semester hours if they have the approval of their advisers and the dean of the college. During the summer session the maximum enrollment is nine hours.

**Graduate Students**

Students enrolled for the student teaching internship may not take more than nine semester hours without the approval of their advisers and the dean.

Students may be restricted to less than the normal enrollment if outside work requires an excessive amount of time, if they are on academic probation, if they are employees of the University, if they are commuting, if their health will not permit usual study and activities, if absences from class are excessive or for other pertinent reasons.

**PASS/NO PASS OPTION**

The pass/no pass option may be used only on elective courses belonging to one of the general education areas of free electives. That is, if a specific course is listed as a requirement in one of these areas, it may not be completed under the pass/no pass option. Since such specific requirements vary with the individual teacher certificate programs, it is the responsibility of the students to check their particular certificate program requirements in the general education areas so that they may properly apply the pass/no pass option to their credit for graduation. All professional and specialized education course requirements are also excluded from the pass/no pass option.

**STUDENT RESPONSIBILITY**

The College of Education disseminates information through the various offices, particularly the Student Services Center. An adviser is appointed to every student enrolled in the college. Even so, the student is expected to read the catalog, and know and understand all the requirements stated therein and on the appropriate degree checksheet. The final responsibility for meeting degree requirements rests with the student.

**ACADEMIC RETENTION NOTICE**

Any student whose OU retention or combined retention grade point average falls below 2.75 will be placed on an academic retention notice for one semester. Any student who fails to raise the OU retention or combined retention grade point average to 2.75 during the semester will be subject to dismissal from the college.

**Degrees Awarded**

A degree is awarded only upon recommendation of the College, and represents the satisfactory completion of all requirements as set forth in the section, Requirements for Graduation.

The faculty may recommend that degrees with Special Distinction be awarded to graduating seniors who:
1. Have grade point averages of not less than 3.75 combined cumulative on all work undertaken;
2. Have completed not less than 60 hours of their last 75 hours in residence in the University;
3. Have the recommendation of the faculty of the College of Education; and,
4. Have not been subject to disciplinary action.

The faculty may also recommend the degree with Distinction for graduating seniors who:
1. Have grade point averages of not less than 3.50 combined cumulative on all work requirements;
2. Have completed not less than 60 of their last 75 hours in residence at the University;
3. Have the recommendation of the faculty of the College of Education; and,
4.Have not been subject to disciplinary action.

**Licensure and Certification**

A teaching license will be issued by the State Department of Education upon application by the candidate and after a formal recommendation for such licensure is transmitted by the certification officer in the recommending institution. At the University of Oklahoma that officer is the director of teacher education. Students who receive their degrees from the University of Oklahoma and who have satisfactorily completed institution requirements for a license, including passing the Certification Examinations for Oklahoma Educators, may receive the recommendation of the college.

The license to teach is valid for one year, during which the holder may serve as a resident teacher. The residency must be served in an accredited school and under the supervision of a committee composed of professionals from the school and from among University teacher education personnel. The committee is responsible for assisting the resident teacher and for making a final recommendation as to the resident teacher’s eligibility for certification for teaching, which normally will follow upon the affirmative recommendation of the committee at the conclusion of the resident teaching experience.

**Teaching Certificate Programs**

Certain teaching certificate programs are available only through the College of Education, and they are as follows:
- Early Childhood Education
- Elementary Education
- Special Education

The following are offered either through the College of Education or the College of Arts and Sciences:
- Foreign Language Education: French, German, Latin and Spanish
- Language Arts Education
- Mathematics Education
- Science Education
- Social Studies Education

The following are offered through the College of Fine Arts:
- Music Education: Instrumental, Vocal.

Graduation requirements vary according to which college a student elects to enter, and are stated in their respective sections of this catalog.

**Program Requirements**

All students admitted to a teacher education program shall enroll in EDFN 3003, and satisfy any special academic, field experience or other education requirements as prescribed by their certificate committee. Required paperwork must be completed prior to enrollment in an education course including field experience (i.e., EDUC 2400, EDFN 3003, 3483, selected
methods courses, and the student teaching internship). For further information please consult with the Field Experience Office, Room 138, Collings-Hall.

In order to determine the college in which to pursue a degree and/or certificate, the student should study the separate degree requirements in each college, and select the degree program in which the requirements most closely conform to his or her own professional and personal objectives. Assistance in making this choice may be obtained by making an appointment with an adviser. For further information call or write: College of Education, Student Services Center, Room 137, Ellsworth Collings Hall, Norman OK 73019-2041, (405) 325-2238.

**Bachelor of Science in Education Majors**

Undergraduate degree requirements are revised and published annually by the Office of Academic Bulletins. The specific requirements are available on the Internet at: http://www.ou.edu/bulletins/degree-sheets/degrnds.htm.

**AYERAL CHILDHOOD EDUCATION**

**General Education Requirements**

1. English—12 hours: ENGL 1113, 1213, 2413; COMM 1113.
2. Mathematics—12 hours: MATH 1473, 1503 or 1523, 2213, 3213.
3. Social Studies—12 hours: HIST 1483 or 1493; PSC 1113; ANTH 1113 or SOC 1113; Non-Western Culture—from approved general education list (3000-level or above) and advisor approved.
4. Science—12 hours: One course in the biological sciences, BOT, MBIO or ZOO; one course in the physical sciences, ASTR, CHEM, GEOG, GPHY, METR, PHY; and, any 2000-level or higher science course. One course must include a laboratory component.
6. Practical Arts—3 hours: EDEC 2203.
7. Arts and Humanities—3 hours: PHIL 1013.
9. Foreign Language—0–10 hours; Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English.
10. Senior Capstone Course—EDEC 4123—satisfied under Specialized Education requirements.

**Professional Education**

EDFN 3003; EIPT 3043, 3473, 3483; EDSP 3054; EDEC 3001, 4001, 4980.

Additional coursework required for certification: EDUC 5920 (PK–K), 5920 (1–3), ILAC 5143.

**Specialized Education**

EDSC 3213, 3211, 3223, 3233, 4123, 4121, 4203; MUED 2733; EDMA 3053, 3153; EDLT 3183, 3253, 4303; EDSC 4093; EDSS 3553; additional free electives to meet the 124 requirement for graduation, 2-3 hours.

**ELEMENTARY EDUCATION**

**General Education Requirements**

1. English—12 hours: ENGL 1113, 1213, 2413; COMM 1113.
3. Social Studies—15 hours: HIST 1483 or 1493; PSC 1113; ANTH 1113 or SOC 1113; GEOG 1103 or 2603; Non-Western Culture—from approved general education list (3000-level or above) and advisor approved.
4. Science—12 hours: One course in the biological sciences, BOT, MBIO or ZOO; one course in the physical sciences, ASTR, CHEM, GEOG, GPHY, METR, PHY; and, any 2000-level or higher science course. One course must include a laboratory component.
5. Arts and Humanities—3 hours: MUNM 1743.
6. Foreign Language—0–10 hours; Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English.
7. Senior Capstone Course—adviser approved.

Electives to total 55 hours: 0 to 1 hour.

**Professional Education**

EDFN 3003; EIPT 3043, 3473, 3483; EDSP 3054; ILAC 4003.

Additional coursework required for certification: EDUC 5920; ILAC 5043.

**Specialized Education**

MUED 2743; HES 3173; EDEL 3142; EDMA 3053, 3153, 4053; EDST 3253, 3711, 3713, 4201, 4203, 4313; EDSS 3553, 4323; EDSC 4093, 4193; EDEL 4101; ILAC 4043; additional electives to meet the 124 minimum for graduation, 3 hours.

**FOREIGN LANGUAGE EDUCATION**

**General Education Requirements**

1. Communication Skills—9 hours: ENGL 1113, 1213; COMM 1113.
4. Science—8–9 hours: One course in the biological sciences, BOT, MBIO or ZOO; one course in the physical sciences, ASTR, CHEM, GEOG, GPHY, METR, PHYS. One course must include a laboratory component.
5. Behavioral Science—3 hours: ANTH 1113, PSY 1113 or SOC 1113.
6. Arts and Humanities—6 hours: ENGL 2413, AHI 1113, or MUNM 1113.
7. Contemporary World Culture—13 hours: HIST 1223 or 1233 (Spanish majors complete HIST 2613 or 2623); an elementary knowledge of another classical or modern foreign language is required (2 courses).
8. Non–Western Culture—3 hours: from approved general education list (3000-level or above).
9. Senior Capstone Course—3 hours: FR 4993 or GERM 4333 or LAT 4503 or SPAN 4183.

Electives to total 55 hours—0 to 1 hour.

**Professional Education**

EDFN 3003; EIPT 3043, 3473, 3483; EDSP 3054; MLLL 4813.

Additional coursework required for certification: EDUC 5920 (Elementary), 5920 (Secondary); MLLL 5920 or LAT 4313.

**Specialized Education**

French: FR 1115, 1225, 2113, 2133, 2223, 2243, 3083, 3423, 3853, 4153, 4163, 4313, 4323; additional elective hours to meet 124 hour undergraduate minimum for graduation may be taken from MLLL, Classics, or Language area, 7 hours.

German: GERM 1115, 1225, 2113, 2133, 2223, 2233, 2413, 3083, 3423, 3853, 4153, 4163, 4313, 4323; MLLL 2123, and six hours of GERM 4000–5000–level course in major language; additional elective hours to meet 124 hour undergraduate minimum for graduation may be taken from MLLL, Classics, or Language area, 7 hours.

Latin: LAT 1115, 1215, 2113 or 2213, 3113 or 3213, 24 hours of work in Latin—six hours of CL C at the 2000–level or above may be substituted for five hours of Latin. Five hours of a modern language may be substituted for five hours of Latin; additional elective hours to meet 124 hour undergraduate minimum for graduation may be taken from MLLL, Classics, or Language area, 10 hours.

Spanish: SPAN 1115, 1225, 2113, 2223, 3073, 3423, 3853, 4093, 4103, 4153, 4163, 4313, 4323; additional elective hours to meet the 124 hour undergraduate minimum for graduation may be taken from MLLL, Classics, or Language area, 7 hours.

**LANGUAGE ARTS EDUCATION**

**General Education Requirements**

1. Communication Skills—15 hours: ENGL 1113, 1213; COMM 1113; two courses chosen from the following: ENGL 2113, 2123, 2133, 3103, 3123, 3133, 3143, 5403.
4. Biological Science—4 to 5 hours: One course in the biological sciences, BOT, MBIO, or ZOO.
5. Physical Science—3-4 hours: One course in the physical sciences, ASTR, CHEM, GEOG, GEOL, GPHY, METR, PHYS.
6. Behavioral Science—3 hours: PSY 1113; SOC 1113 or ANTH 1113.
7. Arts and Humanities—9 hours: ENGL 2413, 4133, PHIL 1013.
8. Practical Arts—6 hours: ILAC 4003, 4043. A grade of C or higher is required.
9. Foreign Language—0-10 hours; Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English.
10. Non-Western Culture—3 hours: from approved general education list (3000 level or above).
11. Senior Capstone—3 hours: ENGL 4853 and EDEN 4913, satisfied under Professional Education requirements.

**Professional Education**

EDEN 3221, 3222, 4913, 4923; EDFN 3003; EIPT 3043, 3473, 3483; EDSP 3054; EDLT 3711, 3713.

Additional coursework required for certification: EDUC 5920; EDEN 5203.

**Specialized Education**

Must take at least four courses from the following list. One course must be ENGL 2773 or 2883; ENGL 2713, 2723, 2733, 2743, 3253, 3353, 3713, 4013, 4713, 4723, 4733, 4813, 4823, or 4833—12 hours. Must take at least four courses from the following list. One course must be ENGL 2543 or 2653, and ENGL 4523 or 4533; ENGL 3033, 3513, 3523, 3533, 3543, 3613, 3623, 4013, 4413, 4433, 4503, 4513, 4543, 4553, 4563, 4573, 4583, 4613, 4623, 4643, 4653—12 hours. Must take at least four courses from the following list; two courses must be ENGL 2213 and 2443: ENGL 2213, 2233, 2443, 3033, 3313, 3323, 3333, 3343, 3363, 3373, 3383, 3403, 3423, 3433, 3573, 3633, 3723, 4003, 4223, 4233, 4243, 4263, 4303, 4403, 4423, 4443, 4453, 4463, 5003—12 hours. Must take at least one course from the following list: ENGL 4463, COMM 2003, 2213, 2323, 3513, 4153, 4223—3 hours.

**MATHEMATICS EDUCATION**

**General Education Requirements**

1. Communication Skills—9 hours: ENGL 1113, 1213; COMM 1113.
2. U.S. History and Government—6 hours: HIST 1483 or 1493; PS 1113.
3. Biological Science—4-5 hours: biology, botany, microbiology, or zoology.
4. Behavioral Science—3 hours: ANTH 1113, PSY 1113 or SOC 1113.
5. Arts and Humanities—9 hours: PHIL 1013; two of the following three: A HI 1113, ENGL 2413, MUNM 1113.
6. Contemporary World Culture—3 hours: foreign language, American ethnic studies, world literature, geography or economics.
7. Foreign Language—0-10 hours; Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English.
8. Non-Western Culture—3 hours: from approved general education list (3000 level or above).
9. Senior Capstone Course—1 hour: MATH 4991.
Electives to total 55 hours to be selected from above areas of Practical Arts or HES: 6-7 hours.

**Professional Education**

EDFN 3003; EIPT 3043, 3473, 3483; EDSP 3054; EDMA 3001, 4001, 4242; ILAC 4003, 4043; MATH 4232.

Additional coursework required for certification: EDUC 5920, One of the following: EDMA 5753, ILAC 5143, MATH 5990.

**Specialized Education**

MATH *1823, *2423, 2433, 2443, 3333, 3513, 3613, 4323, 4753; PHYS *2514; CS 1133 or 1233; HSCI 3013 or 3023. Six hours from the following, one of which must be an approved capstone: Math 4193, 4333, 4433, 4443, 4673, 4733, 4853.

*These 10 hours along with the 45 hours listed in General Education comprise the 55-hour minimum college requirement for General Education.

Additional electives in Education—8 hours. Recommended electives in Education: EIP 5403, 5423, 5513, 6313.

**SCIENCE EDUCATION**

**General Education Requirements**

1. Communication Skills—9 hours: ENGL 1113, 1213; COMM 1113.
2. Mathematics—6 hours: Math 1523. One course from one of the following areas: Algebra, Calculus, or Trigonometry.
4. Behavioral Science—3 hours: ANTH 1113; PSY 1113; SOC 1113.
5. Arts and Humanities—9 hours: PHIL 1013; two of the following three: A HI 1113, ENGL 2413, MUNM 1113.
6. Contemporary World Culture—3 hours: geography, economics, foreign language, world literature or American ethnic studies.
7. Foreign Language—0-10 hours; Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English.
8. Non-Western Culture—3 hours: from approved general education list (3000-level or above).
9. Senior Capstone Course—EDUC 4060—satisfied under Professional Education requirements.
Electives to total 55 hours from business, computer science, fine arts, human development and library and information studies or areas listed above: 4 hours.

**Professional Education**

EDFN 3003; EIPT 3043, 3473, 3483; EDSP 3054; EDSC 4513; EDUC 4060.

Additional coursework required for certification: *EDSC 5514.

*Substitutions may be considered by science education faculty.

**Specialized Education**

*BOT 1114; *ZOO 1114, 1121; One of the following: 2124, 2204, 2234, 2255, or 3103 and 3101; CHEM 1315, 1415; *PHYS 2414, 2424; GEOL 1114; METR 1014; Electives—14-15 hours—to be selected from subject area(s) in which certification is sought. All electives may be taken in one or more areas listed above.

*These 12 hours along with the 43 hours listed in General Education comprise the 55-hour minimum college requirement for General Education.

Additional coursework required for certification: Additional courses in the natural sciences at the graduate level—5-6 hours.

**SOCIAL STUDIES EDUCATION**

**General Education Requirements**

1. Communication Skills—9 hours: ENGL 1113, 1213; COMM 1113.
4. Science—8-9 hours: One course in the biological sciences, BOT, MBIO or ZOO; one course in the physical sciences, ASTR, CHEM, GEOG, GEOL, GPHY, METR, PHYS. One course must include a laboratory component.
5. Behavioral Science—3 hours: *SOC 1113.
6. Arts and Humanities—9 hours: three of the following four: ENGL 2413, A HI 1113, PHIL 1013 or MUNM 1113.
7. Contemporary World Culture—9 hours: GEOG 1103, ECON 1113, World Civilization Elective (must be advisor approved).
8. Foreign Language—0-10 hours; Teacher candidates must demonstrate conversational skills at a novice-high level in a language other than English.
9. Non-Western Culture—3 hours: from approved general education list (3000-level or above).
10. Senior Capstone Course—EDSS 4563—satisfied under Professional Education requirements.
11. Electives—1-2 hours.

*AGrade of C or better is required.
Degrees Offered

- Master of Education
- Doctor of Education
- Doctor of Philosophy

Master’s Degree Programs

- Adult and Higher Education
- Educational Administration, Curriculum and Supervision
- Educational Studies

Doctoral Degree Programs

- Adult and Higher Education
- Educational Administration, Curriculum and Supervision
- Educational Studies

Certificate Programs

- Superintendent of Schools
- Principal, Elementary/Secondary Schools

Master’s Degree Programs

ADMISSION AND REQUIREMENTS

Admission to a master’s degree program in education requires a 3.00 grade point average for the last 60 credits of undergraduate study. Additional qualifications may be required by faculty in some areas.

Applicants for programs leading to the Master of Education degree must present a bachelor’s degree in an appropriate field from an accredited college or university. Students may elect a thesis or a non-thesis program. Students must complete degree requirements within six calendar years after their first graduate enrollment at the University of Oklahoma. A written comprehensive examination may be required in the Department of Educational Leadership and Policy Studies.

The program for the master’s degree includes intensive preparation for a specialized type of educational responsibility with study in associated fields. Work at the graduate level may be required in educational psychology and historical, philosophical and social foundations of education. The exact pattern of the program will be determined after consultation with the adviser. Students may obtain information about specific course requirements for each program area from the department office.

Specific program requirements are intended to provide excellence of preparation in the field of practice. General requirements across the department assure a common base for all graduates. Thesis programs require a minimum of 30 semester credit hours, and non-thesis programs typically require a minimum of 32 credits.

Descriptions of each master’s program are given on the following pages. Prospective students are encouraged to seek additional information by contacting the graduate liaison officer in the department about the program area of their interest.

ADULT AND HIGHER EDUCATION (EDAH)

The master’s program in Adult and Higher Education prepares individuals to assume entry-level and mid-level administrative roles in appropriate adult and higher education organizations. The master’s program is comprised of a comprehensive curriculum and practical experiences designed to prepare students for professional positions in a variety of educational and training organizations including colleges and universities, governmental agencies, educational planning agencies, and business and industry. The master’s program offers these emphases:

- Adult and Continuing Education
- Higher Education Administration, Institutional Research, Student Personnel Services, Community College Administration, and Intercollegiate Athletics Administration
- Distributive/Distance Learning and Education
- Training and Development
Adult and Continuing Education
This emphasis is designed to provide students with the competencies necessary to develop and administer successful educational programs for adults based on the literature in adult learning, program planning, and administration. This emphasis prepares professionals for work as administrators, program planners, and adult education specialists in a variety of organizations including universities, colleges, community colleges, vocational schools, business, industry, and government.

Higher Education Administration
The general higher education concentration focuses on topics related to general administration in colleges and universities. In this concentration, students are introduced to theories, issues, and research related to organizational behavior, leadership, academic administration, financial management, and planning in higher education. The concentration enables students to become competitive candidates for entry-level to mid-level general administrative positions in higher education, intercollegiate athletics, and institutional development.

Institutional Research
The institutional research concentration focuses on the utility of data and information in decision making, planning, and management in colleges and universities. Students are introduced to management and decision support systems and the types of research that should be undertaken on various institutional aspects (students, faculty, staff, facilities, capital and finance, curricula, programs, internal and external environments) which can yield important findings and implications for planning and management purposes. This concentration prepares students to assume institutional research positions in higher education.

Student Personnel Services
The student personnel services concentration focuses on administration and research related to college students. In this concentration, students are introduced to concepts and theories related to the administration of student personnel services, and to critical research topics dealing with college students (such as factors related to college choice, persistence, development, and student outcomes). This concentration prepares students to assume entry-level to mid-level administrative student personnel positions in higher education, in such areas as student services, residence life, financial aid, counseling, placement, student development, and tutoring.

Intercollegiate Athletics Administration
Intercollegiate athletics is increasingly becoming an important and complex administrative function in higher education. The intercollegiate athletics administration concentration focuses specifically on organizational, administrative, and managerial issues related to intercollegiate athletics. This concentration prepares students for careers in athletic and related departments in higher education.

Distributive/Distance Learning Education
The emphasis on distance education prepares professionals for work in the field of distance education as administrators, planners, instructors, and telecommunications specialists in a variety of education-related organizations, including universities, colleges, state and federal agencies, business and industry. The distance education emphasis offers concentrations in administration and program design. The administration concentration is designed to provide professionals with the competencies required to plan and administer distance learning systems. The distance education design concentration prepares instructors with the competencies required to teach students who study at a distance. The focus of this program is on the application of telecommunications in educational settings.

Training and Development
The training and development emphasis prepares professionals for work as trainers, directors of training programs, and human resource professionals in a variety of training organizations including business, industry, government, and educational entities. Adult learning theory, instructional strategies, and evaluation provide a basic foundation for the study of training and development.

EDUCATIONAL ADMINISTRATION, CURRICULUM AND SUPERVISION (EACS)
The purpose of the master’s degree program in educational administration, curriculum and supervision is to provide graduate-level preparation for professional positions such as elementary school principal, middle school principal, director of elementary education, secondary principal, secondary curriculum consultant or supervisor, general or specific supervisor, curriculum consultant, and curriculum director. This program is offered in both thesis and nonthesis formats.

EDUCATIONAL STUDIES (EDFN)
The master’s program in educational studies is designed to engage experienced educators in interpretive, normative, and critical studies of children’s and adults’ education for social justice—in diverse historical and cultural contexts, and in different nations—via the arts, humanities, and social sciences. Such interdisciplinary studies enhance the creative resources of educators and other persons involved in social service work who aim to be transformative leaders. For example, students consider the state’s, institution’s, or organization’s role as an agent of acculturation or of social change. History, philosophy, sociology, and economics are, therefore, major disciplinary tools that inform the policy and practice of educators.

Doctoral Programs
Doctoral programs in Educational Leadership and Policy Studies are designed to prepare personnel for administrative, service and faculty positions in colleges and universities, public schools and other education and training agencies in government and the private sector. It is possible to study for the doctorate in adult and higher education, educational administration, curriculum and supervision, and educational foundations. The doctoral degrees awarded in the College of Education are the Doctor of Philosophy (Ph.D.) and the Doctor of Education (Ed.D.). Ph.D. programs in the Department of Educational Leadership and Policy Studies focus on scholarly inquiry in several discrete areas and are intended to serve individuals who are research oriented and have promise of developing new knowledge in their fields of study. In addition to the Ph.D., EACS also offers a Doctor of Education, also known as the Executive Ed.D. The Executive Ed.D. program is directed at terminal degree preparation of practitioners in education who can be expected to serve with distinction in demanding professional positions.

Admission to doctoral study in education requires a minimum 3.25 grade point average on all graduate work attempted and additional requirements as determined by program areas within the department. The Graduate Record Examination is required of all applicants to a doctoral program. Upon acceptance by the area faculty and in consideration of recommendations made by the faculty, the department chairperson and/or the graduate studies committee and the doctoral student, the graduate dean will appoint an advisory committee. The advisory committee consists of a chairperson from the student’s major field, at least one representative from outside the department, and other faculty totaling at least five members. An advisory conference will determine the program of study that must be completed to qualify for the degree.

Upon completion of the required course work (exclusive of the dissertation), students must complete the General Examination. Prior to attempting the General Examination, a student must demonstrate proficiency in research methods prescribed in both quantitative and qualitative research for Doctor of Philosophy candidates. These standards are set forth in the department’s Graduate Studies Handbook. The student must also meet all relevant requirements of the Graduate College, as well as those of the student’s individual program area. The candidate is expected to complete all degree requirements within four years after the General Examination. Failure to accomplish this may require another writing of the General Examination and/or the revalidation of coursework. Prospective students are encouraged to contact the appropriate program area for information about program availability, and college and departmental requirements. In addition, the section of the Graduate Bulletin, which describes the procedures and requirements for graduate study at the University, should be reviewed and kept as a reference.
ADULT AND HIGHER EDUCATION DOCTORAL PROGRAM

The doctoral program in Adult and Higher Education is designed to prepare individuals for teaching and research positions in Adult and Higher Education, and for individuals interested in administrative and service positions in colleges and universities, professional organizations, and other educational and training agencies in government and the private sector. The degree awarded in adult and higher education is the Doctor of Philosophy (Ph.D.). This degree is designed to foster the development of professionals and scholar/practitioners in Adult and Higher Education and is intended to serve individuals who have promise of making scholarly contributions to their area of expertise. Doctoral emphases within the Adult and Higher Education program include:

- Adult and Continuing Education
- Continuing Professional and Higher Education
- Higher Education Administration, Institutional Research, Student Personnel Services, Community College Administration, and Intercollegiate Athletics Administration
- Distance/Distributive Learning Education
- Training and Development

Students selecting an Adult and Continuing Education emphasis will develop knowledge and research skills to meet the learning needs of adults in both formal and informal settings. The Continuing Professional and Higher Education emphasis provides students with the knowledge, competencies, and research skills appropriate to the role of administrator, professor, and researcher within the continuing professional and higher education frameworks. The Higher Education emphasis provides students with an in-depth understanding of administrative and research issues related to higher education as a unique organization, institutional research, student personnel services, and intercollegiate athletics administration. The Distance Education emphasis prepares students for work in the field of distance education as administrators, planners, instructors, and telecommunications specialists in a variety of education-related organizations. In the Training and Development emphasis, students will develop an in-depth understanding of the human resource potential in governmental, business and industrial organizations.

EDUCATIONAL ADMINISTRATION, CURRICULUM AND SUPERVISION DOCTORAL PROGRAMS

The doctoral programs (Ph.D. and Ed.D.) in EACS are designed to prepare individuals for careers in the education profession, including those found in higher education institutions and public schools. The Ph.D. is intended for those who wish to pursue careers in the research-oriented professions such as a faculty member in a research institution or as a professional staff member in a research center. The degree requires a high level of commitment to research and an understanding of leadership functions. The Executive Ed.D. degree is intended for those aspiring to central office or other practitioner positions in education. It is offered in a cohort format and is intended especially for those who are committed to a career in school administration. The Ph.D. program is individually tailored to support the needs, interests, and career aspirations of each student. Basic coursework in administrative and organizational theory, community, educational renewal and human relations, curriculum, supervision, finance, law, policy, politics, leadership, and evaluation is available. Doctoral study may be interdisciplinary so coursework and experiences from other departments and colleges are encouraged.

EDUCATIONAL STUDIES (EDFN)

The Ph.D. program in educational studies prepares experienced educators for teaching and research positions in higher education by engaging them in interpretive, normative, and critical research on children’s and adults’ education for social justice—in diverse historical and cultural contexts, and in different nations—via the arts, humanities, or social sciences. Such research requires a broad, complex, and transformative view of teaching, learning, curriculum, and their myriad contexts, including gender, age, race, ethnicity, sexual orientation, and socioeconomic status. Therefore, this interdisciplinary field brings together historical, philosophical, sociological, economic, and human relations approaches to understanding and evaluating the means and ends of education, past and present, actual and potential. The program requires students to work closely with faculty to design their programs of study and residency plans so that they are tailored to each individual’s own professional purposes and social justice concerns.

Graduate Student Organizations

Phi Delta Kappa is a national fraternity dedicated to the promotion of excellence in leadership, scholarship and service through the education profession. The University of Oklahoma chapter was established in 1921 and has operated continuously since that time. Membership, available to all graduate students without condition as to race, sex or ethnic origin, is based upon satisfactory performance at the graduate level, and the indication of potential in the furtherance of the objectives of the organization.

Kappa Delta Pi, also a national fraternity that encourages the development of leadership in education, is open to graduate students as well as upper-division and undergraduates who have shown evidence of successful scholastic achievement.

Certificate Programs for Educational School Administrators

Administrative Officer

Joan K. Smith, Director of Teacher Education

In Oklahoma, certificates in teaching and special fields are issued by the Oklahoma State Department of Education upon application by the candidate and formal recommendation by the Director of the Education Professions Division of the institution in which the candidate has studied. To be recommended for a school administrator's certificate by the University of Oklahoma, the applicant must meet five conditions, in addition to those listed under general University requirements for admission to and continuation in graduate study:

1. Be assigned to an adviser for the program through which certification is expected. The EACS Program Area Coordinator makes this assignment.
2. Be formally admitted to the program through which certification is expected. For all graduate programs, a screening committee determines this admission. Admission to the Graduate College does not constitute admission to the certificate program.
3. Have completed all courses listed in the requirements for the certificate program.
4. Have earned a grade point average of 3.00 or higher on all graduate work.
5. Be favorably recommended for the certificate by the adviser.

The curricula for teacher education are planned by committees of the EACS faculty. As listed in the following pages, these curricula satisfy the requirements for standard certificates in Oklahoma. For additional information concerning teacher education at the University of Oklahoma, inquiries should be addressed to the Director, Division of Teacher Education.

Educational Administration

The University has accredited programs for the preparation of educational administrators. Candidates may qualify for a certificate as a superintendent, a secondary school principal or an elementary school principal. The program for each student is planned within the framework of the requirements listed below so that the individual may function at a high level of quality as an educational leader.

The requirements for a certificate for superintendent of schools and principal shall include not less than a standard master’s degree, such other professional education requirements as may be fixed by the State Board of Education, and a minimum of two years’ successful teaching, supervisory or administrative experience in public schools.
**Department of Educational Psychology**

Terry M. Pace, Chair and Graduate Liaison

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Norman, OK 73019-2041

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FAX: (405) 325-6655
Internet: [http://www.ou.edu/education/edpsy](http://www.ou.edu/education/edpsy)

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**Faculty Roster**

**Counseling Psychology:** Professors Newman, Pace, Pappas, Scherman, Stoltenberg; Assistant Professors Beesley, Free, Robbins.

**Instructional Psychology and Technology:** Professor Miller; Associate Professors DeBacker, B. Greene, P. Smith; Assistant Professors Bradshaw, Crowson, Ge, Hardre, Kaufman, Thomas.

**Special Education:** Professor Martin; Associate Professors Gardner, Haring, Lovett, Ormsbee.

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**Degrees Offered**

- Master of Education
- Master of Education/Master of Library and Information Studies
- Doctor of Philosophy

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**Master’s Degree Programs**

- Community Counseling
- Instructional Psychology and Technology
- School Counseling
- Special Education

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**Doctoral Degree Programs**

- Counseling Psychology
- Instructional Psychology and Technology
- Special Education

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**Purposes**

The mission of the Department of Educational Psychology, through its programs in counseling, instructional psychology and technology, and special education is to:

1. Develop and disseminate new knowledge through research and scholarly activity, deliver quality instruction, and provide professional training worthy of recognition at the regional and national levels;
2. Provide service to the University and leadership to our respective disciplines at the state, regional and national levels;
3. Be responsive to those opportunities for research, training and service occurring at the junctures of those disciplines within the department, and;
4. Participate fully in those teacher-preparation and related educational programs, through which the College of Education meets the state’s needs for educational personnel.

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**Graduate Assistantships**

A limited number of graduate assistantships and fellowships are available. These are usually reserved for students in doctoral programs. Applications can be made through your program area coordinator to the department chair.

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**Special Facilities**

**COUNSELING CLINIC**

The Counseling Psychology Clinic is located on South Base at the corner of Lawrence and Constitution in Building S-6. The clinic functions as a mental health facility for Norman and surrounding areas with services provided by masters students in the community and school counseling programs and doctoral students in counseling psychology.

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**Admission Requirements**

Admission to study for the master’s degree in education requires a grade point average of 3.00 in the last 60 hours of undergraduate study. Additional requirements in some areas are determined by area faculty. Admission to study beyond the master’s degree in education requires a minimum of 3.25 grade point average on all graduate work attempted, and additional requirements as determined by appropriate faculty committees. Graduate Record Examination scores are required of all applicants to doctoral programs and are used as one criterion for acceptance.

Prospective students are encouraged to consult the Department of Educational Psychology Graduate Student Handbook for information about program availability, and college and departmental requirements. In addition, the section of the Graduate Bulletin, which describes the procedures and requirements for graduate study at the University, should be reviewed and kept as a reference.

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**Requirements for the Master’s Degree**

Applicants for programs leading to the degree of Master of Education must present a bachelor's degree in an appropriate field from an accredited college or university. A student must complete work within six calendar years after the student’s first graduate enrollment at the University of Oklahoma.

Depending on program area, a written examination is required and thesis, non-thesis, or special project options may be applicable.

The program for the master's degree includes intensive preparation for a specialized type of educational or professional responsibility with study in associated fields. The exact pattern of the program will be determined after consultation with the advisor. The student should check with the program area for specific course requirements.

The specific requirements of each program are tailored to provide excellence of preparation in the field of practice.

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**Master’s Degree Programs**

Descriptions characterizing each master’s program follow. Prospective students are encouraged to seek additional information by contacting the program coordinator in their area of interest.

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**COUNSELING**

The counseling program area offers two master’s degree programs:

**Community Counseling**—This 49 credit-hour program is designed to train persons who are interested in working as counselors in various community, state, and federal agencies. All students complete a one-year supervised practicum at the OU Counseling Clinic, and a one-year internship at an external mental health agency. For graduates of this program who wish to pursue the Licensed Professional Counselor (LPC) license issued by the state of Oklahoma, 11 hours of additional coursework is required. This additional coursework is available to those who wish to meet LPC requirements.

**School Counseling**—This 48 credit-hour program is designed to train persons interested in working as counselors in elementary and secondary schools in both public and private settings. It is a two-year, 48-hour program designed to accommodate the work schedules of public school teachers. Graduates of the program will have completed the coursework and experiences necessary to state certification as a school counselor in Oklahoma.
INSTRUCTIONAL PSYCHOLOGY AND TECHNOLOGY

The program area in instructional psychology and technology offers four master's degree options:

- Instructional Psychology and Technology
- Instructional Design
- Instructional Technology
- Design and Development of Instructional Software

The Instructional Design master's degree option develops the knowledge and skills necessary for the execution and management of instructional design/development projects in a variety of settings. Study of the psychological foundations of learning and the elements of instructional design are central to this option. Instructional Designers work with content experts to develop training and instructional programs in business, industry, or government.

The Instructional Technology master's degree option provides general training in the area of instructional technology and curriculum design. This option provides expertise in a wide range of instructional technologies and associated best instructional practices. Employment settings for graduates of this option tend to be in business and government (including schools).

The Design and Development of Instructional Software master's degree option prepares persons who wish to develop instructional software, including web-based instructional environments. Study of instructional design and the psychological foundations of learning provide a theoretical grounding for this option. The graduates of this option typically work in business or government training settings.

The Instructional Psychology and Technology master's degree option is designed to develop expertise in the psychological foundations of learning and instruction. This option is particularly well suited to educators seeking to strengthen their instructional effectiveness. This option also prepares people who wish to pursue a doctoral degree in the field of Instructional Psychology and Technology.

Additionally, a dual degree masters' program is offered in cooperation with the School of Library and Information Studies. The dual degree program, further described below, leads to the M.Ed. degree in Instructional Psychology and Technology and the M.L.I.S. degree accredited by the American Library Association.

SPECIAL EDUCATION

The master's degree program in special education is designed to prepare master educators to meet the needs of individuals with disabilities in schools and other natural environments. It is possible to complete special education teacher certification requirements while working towards the M.Ed. degree. Graduates of the program typically assume positions as teachers or administrators of programs serving individuals with disabilities.

Students in the program are required to complete six core courses in special education and one introduction to research course. These core courses focus on advanced knowledge regarding instructional strategies, management techniques, accommodations, and modifications to support individuals with disabilities as they reach their fullest potential. Students take an additional 12 credit hours of elective courses designed to accommodate individual interests. Thus, students complete the program with either 32 or 34 credit hours depending on whether they select a non-thesis or thesis option. Students have the opportunity to work closely with nationally recognized faculty and develop a support network of professional colleagues as they become master educators.

Dual Master's Degree Program

DEGREES RECEIVED

- From the College of Education—Master of Education (M.Ed.)
- From the College of Arts and Sciences—Master of Library and Information Studies (M.L.I.S.)

PURPOSE

To provide a course of study for those individuals wishing to train for careers in education (school media centers or LRC’s, nontraditional school libraries, vocational-technical libraries, junior college media centers, special education centers), government (public libraries, correctional facilities, armed forces library and educational centers), business and industry.

ADMISSION TO THE PROGRAM

Students must meet the graduate admission requirements of both the Department of Educational Psychology and the School of Library and Information Studies. Students will be admitted to this program only by a joint admissions committee.

The only change for the School of Library and Information Studies will involve the tool requirements. Evidence of competencies will be expected at the completion of the program, but not prior to admission. Since the school accepts as many as two media courses to satisfy its tool requirements, a student completing the dual master’s degree program will automatically have fulfilled those requirements.

RETENTION IN THE PROGRAM

The student must maintain the grade point average required by each academic unit. Failure to do so will mean that the student will be dropped from the unit in which the grade point average falls below that required. The student may pursue a degree in the other unit, where his/her grade point average is still acceptable, but will be required to fulfill all requirements for that degree.

LIBRARY MEDIA SPECIALIST

For further information refer to the School of Library and Information Studies section of this catalog.

Doctoral Programs

Doctoral programs in the Department of Educational Psychology are designed for present and prospective administrative, service and faculty positions in colleges and universities, public schools, and other education and training agencies in government and the private sector. Doctoral programs exist in the areas of instructional psychology and technology, counseling psychology (accredited by the American Psychological Association) and special education.

Ph.D. programs in the Department of Educational Psychology are directed at development of scholarly expertise in an area and are intended to serve individuals who have promise of making contributions to their area of expertise. In addition, the Ph.D. counseling psychology program is designed to prepare licensed psychologists in this specialty area.

Admission to doctoral study in the department requires a minimum 3.25 grade point average on all graduate work attempted. All applicants must present Graduate Record Examination general test scores (Verbal, Quantitative, and Analytic), which are used along with other data as a basis for admission. Programs may impose admission requirements in addition to those set by the Graduate College and the department. The program area coordinator should be consulted for special program application requirements, and for annual admission application deadlines. A TOEFL of 550 or better is required for international students.

An advisory committee will be appointed by the graduate dean upon recommendation from the student’s area and the department chair and/or graduate studies committee in consultation with the student. The advisory committee will consist of a chairperson from the student’s major field, at least one representative from a minor or supporting area and other faculty members to total at least five. The advisory conference will determine the program of study that must be completed to qualify for the degree.

Upon completion of the majority of required coursework (exclusive of dissertation), the student must complete the General Examination. Prior to attempting the General Examination, a student must demonstrate proficiency in research methods. For more detailed descriptions of research proficiency procedures, contact the graduate liaison in the department.
The student must also meet all relevant requirements of the Graduate College, as well as those of the student’s individual program area.

The candidate is expected to complete all degree requirements within four years after the General Examinations. Failure to accomplish this may require the candidate to retake the General Examination.

Prospective students are encouraged to consult the Department of Educational Psychology Graduate Student Handbook for information about program availability, and college and departmental requirements. In addition, the section of the Graduate Bulletin, which describes the procedures and requirements for graduate study at the University, should be reviewed and kept as a reference.

Department of Instructional Leadership and Academic Curriculum

Priscilla L. Griffith, Chair and Graduate Liaison
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Internet: http://www.ou.edu/education/ilac.htm

Faculty Roster
Professors Angelotti, Chioco, Fleener, Griffith, Marek, Pedersen; Associate Professors Beach, L. Dunn, Houser, McKinney, McQuarrie, A. Reynolds, D. Rodgers; Assistant Professors Ruan, Willner.

Purposes
The mission is to prepare teachers and other professionals for leadership roles in education-related settings; to engage in critical inquiry through professionally recognized research and scholarship; and to provide leadership to the profession and society.

Degrees Offered
• Master of Education
• Doctor of Philosophy

Master’s Degree Program Concentrations
• Bilingual Education
• Early Childhood Education
• Elementary Education
• English/Language Arts Education
• Instructional Leadership
• Mathematics Education
• Reading Education
• Science Education
• Secondary Education
• Social Studies Education

Doctoral Degree Program Concentrations
• Early Childhood Education
• Elementary Education
• English/Language Arts Education
• Instructional Leadership

Requirements for the Master’s Degree
Admission to study for the master’s degree in education requires a grade point average of 3.00 in the last 60 hours of undergraduate study. Additional requirements in some areas are determined by area faculty.

Applicants for programs leading to the degree of Master of Education must present a bachelor’s degree as conferred by the University of Oklahoma or the equivalent, and the prerequisites for graduate courses in the teaching subjects. The student may elect a thesis or a non-thesis option. A student must complete work within five calendar years after the student’s first graduate enrollment at the University of Oklahoma.

The program for the master’s degree includes intensive preparation for a specialized type of educational responsibility with study in associated fields. The exact pattern of the program will be determined after consultation with the adviser. Work may also be taken in any academic fields in which the student has course prerequisites. The student should check with the program area for specific course requirements.

These programs are separate from teaching certification programs.

Master’s Degree Programs
Descriptions characterizing each master’s program follow. More information can be obtained from the Department of Instructional Leadership and Academic Curriculum, 820 Van Vleet Oval, Norman, OK 73019-2041. Prospective students are encouraged to seek additional information by contacting the program coordinator in their area of interest.

BILINGUAL EDUCATION
The purpose of the master’s program in bilingual education is to advance the student’s understanding of limited English proficiency students and the instructional strategies necessary in teaching these students. NOTE: This program has a limited enrollment and is offered via cohort groups.

EARLY CHILDHOOD EDUCATION
The purpose of the master’s degree in early childhood education is to increase the depth and breadth of students’ understanding of developmental theory, curriculum, and instructional methodology for educating and caring for children from birth to age eight. Students will explore current research and issues in the field and the forces affecting them.

ELEMENTARY EDUCATION
The purpose of the master’s program in elementary education is to provide advanced professional education and specialized academic work designed to further the professional competence level of teachers in elementary schools.

ENGLISH/LANGUAGE ARTS EDUCATION
The purpose of the master’s program in English/language arts is to advance student understandings of the field of English Education through studies of English/language arts teaching, curriculum, and research in literacy, language, composition, and literature.

INSTRUCTIONAL LEADERSHIP
The purpose of the master’s program in instructional leadership is to increase students’ understanding of the multi-disciplinary nature of the field, including inter- and cross-disciplinary studies within and outside the department.
MATHEMATICS EDUCATION
The purpose of the master’s program in mathematics education is to promote professional and scholarly growth in students’ understanding of mathematics learning and pedagogy from theoretical, research, and practical orientations, as well as to provide leadership for the mathematics education community.

READING EDUCATION
The purpose of the master’s program in reading education is to foster students’ understanding of current theory and research in literacy learning, teaching, and curriculum from birth through post-secondary education. Students may also wish to obtain a reading specialist certification in conjunction with the master’s degree. Please see the Reading Specialist Certification description in the next section.

SCIENCE EDUCATION
Central to the master’s program in science education is the development of professionalism, scholarship, and leadership in pedagogy and science content. Students explore teaching and learning at all school levels and in diverse environments.

SECONDARY EDUCATION
The purpose of the master’s program in secondary education is to provide advanced professional education and specialized academic work designed to enhance the professional competence level of teachers in secondary schools.

SOCIAL STUDIES EDUCATION
The purpose of the master’s program in social studies education is to advance student understanding in social studies teaching and content in elementary and secondary education.

Reading Specialist Certification
The requirements for certification as a Reading Specialist include:
1. Two years of satisfactory teaching experience.
2. Standard Oklahoma Teaching Certificate.
3. Completion of a master’s degree in reading education.
4. Compilation of a portfolio demonstrating mastery of the Oklahoma Competencies for certification as a Reading Specialist.
5. Passing score on the state certification examination for Reading Specialists.

TEACHING CERTIFICATION
Students holding a bachelor’s degree and wishing to qualify for a standard teaching certificate may apply for admission to do so as graduate students. Further information about available programs may be obtained by writing: College of Education, Graduate Records Office, 820 Van Vleet Oval, Norman, OK 73019-2041.

Requirements for the Doctoral Degree
Doctoral programs are designed for present and prospective service and faculty positions in colleges and universities, public schools, and other education and training agencies in government and the private sector.

The Doctor of Philosophy (Ph.D.) program is directed at the development of scholarly expertise in an area and is intended to serve individuals who have promise of making contributions to their areas of expertise. Details are available in the College of Education, Graduate Records Office, 820 Van Vleet Oval, Norman, OK 73019-2041.

Admission to doctoral study requires a minimum 3.25 grade point average on all graduate work attempted, and additional requirements as determined by program areas within the department. These include such things as a writing sample, personal interview, and letters of recommendation. All applicants must present Graduate Record Examination general test scores (verbal, quantitative and analytic), which are used along with other data as a basis for admission. A TOEFL of 550 or better for international students is also required.

A student may be accepted into a doctoral program only after the application is completed and the student has been accepted by the program area. An advisory committee will be approved by the graduate dean upon recommendation from the student’s area and department graduate liaison in consultation with the student. The advisory committee will consist of five members, with at least three from the department and one from outside the department. The advisory conference will determine the program of study that must be completed to qualify for the degree.

The candidate is expected to complete all degree requirements within four years after the General Examinations. Failure to accomplish this may require the candidate to retake the General Examination.
College of Engineering

Carson Engineering Center, Room 107
Norman, OK 73019-1021

Phone: (405) 325-2621
FAX: (405) 325-7508

Internet: http://coe.ou.edu/

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Administrative Officers
W. Arthur Porter, Ph.D., Dean of the
College of Engineering and Vice
President for Technology
Development
Jeffrey H. Harwell, Ph.D., Executive
Associate Dean
Thomas L. Landers, Ph.D., Associate
Dean for Research
Teri Reed Rhoads, Ph.D., Director of
Engineering Education

General Information

Instruction in professional engineering was first
given at the University of Oklahoma in 1899
when a course in surveying was offered. The
following year, 1900–01, the first two years of
engineering were presented. In 1902–03 a
curriculum in civil engineering was established,
and a School of Mines was organized. At the
same time, courses in electrical and mechanical
engineering were listed. In 1904 the courses in
engineering were organized as a School of
Applied Science. In 1909 the School of Mines and the School of Applied
Science were joined and reorganized as the College of Engineering. The first
professional degrees were conferred in 1909.

The college has grown substantially since that time. It now offers degrees in
11 undergraduate engineering fields, as well as computer science and
environmental science. The student body includes approximately 2,270
undergraduate students and 550 graduate students. Its facilities now fill
eight major buildings with research facilities in portions of five other buildings.

In recent years, the College has been a major contributor to the philosophy
of modern engineering education. It was one of the first to develop and
adopt the “core” type engineering curricula now prevalent throughout the
country. It was also one of the first to use the new approach to engineering
analysis and design. Thus, the curricula in engineering are constantly being
updated and modified to meet the needs of industry and future graduate
work, increase the versatility of the student, and prolong the usefulness of
the material taught.

The college is organized into schools and departments with the responsibility
for administering the undergraduate and graduate programs of study, or
curricula, as listed in the later pages of this catalog. The professional
subjects in these curricula are supported by courses from other colleges of
the University. Upon satisfactory completion of one of the curricula, a
student will be recommended for a degree, in most cases qualified by the
name of the engineering field pursued.
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Directors of Schools
Sub R. Gollahalli, Ph.D., Director, School of Aerospace and Mechanical Engineering
Edgar A. O’Rear, Ph.D., Director, Bioengineering Program
Lance L. Lobban, Ph.D., Director, School of Chemical Engineering and Materials Science
Robert C. Knox, Ph.D., Director, School of Civil Engineering and Environmental Science
John K. Antonio, Ph.D., Director, School of Computer Science
Gerald E. Crain, Ph.D., Director, School of Electrical and Computer Engineering
Teri Reed Rhoads, Ph.D., Director of Engineering Education, Department of Engineering
Michael Santos, Ph.D., Chair, Engineering Physics Program
P. Simin Pulat, Ph.D., Director, School of Industrial Engineering
Dean Oliver, Ph.D., Director, Mewbourne School of Petroleum and Geological Engineering

Faculty
The deans, professors, associate professors, assistant professors and instructors in the schools and departments of the College of Engineering constitute the faculty of the College.

The professional faculty is a representative group of engineers who have received their education in the best universities of this country and abroad. A number of the faculty have had wide industrial and consulting experience.

Facilities
The main College of Engineering complex is located on the northeast corner of the University’s Norman campus. The six-story Carson Engineering Center includes classrooms and laboratories for civil and environmental engineering and environmental science, computer engineering, computer science, electrical engineering, and industrial engineering. Felgar Hall houses laboratories and facilities for aerospace and mechanical engineering, the Engineering Library, Engineering Computing Services (ECS), and Williams Student Services Center. Sarkeys Energy Center houses petroleum engineering, geological engineering and chemical engineering. Other buildings include the Engineering Laboratory Building, housing the School of Computer Science. Several other smaller buildings for research purposes complete one of the finest engineering education complexes in the Southwest.

The other laboratories of the college are well-equipped to demonstrate the principles of courses offered and are described in other sections of this catalog. Through these laboratories and the actual use of apparatus, instruments, and equipment a student is able to make practical applications of the theories and principles which he/she has learned in the classroom.

Students of the college are active in field work. In addition, laboratories and other facilities of the College are used by the students and faculty members not only in their regular work, but also for research and experiments which are of benefit to the industrial development of the state.

COMPUTING
The College operates Engineering Computing Services (ECS). ECS consists of a high-speed backbone with connections to faculty, staff, laboratory, and classroom computers. Radio technology extends the network to cover the engineering buildings, outside areas, laboratories, and classrooms. For more detailed information, visit: http://coecs.ou.edu.

LAPTOP REQUIREMENT
Students with a major in the College of Engineering are required to have a laptop computer. The laptop technologies are used to enhance the learning experience and the value of College of Engineering graduates. Students should consult with faculty advisers, ECS, or the Williams Student Services Center for additional information.

The College believes that the use of a computer should be second nature to all of our engineering students, and that they should start to utilize this technology from the minute they arrive here as freshmen. Specifically, we believe that a laptop affords students the best mix of speed, size, and mobility. The computer will be used in many ways, in class, out of class, on weekends, at home, in the dorm, to do research, to do assignments, to access the Internet, etc. Some instructors will utilize it more than others, and some may not require it in class at all. However, if an instructor does require a laptop in class, it is the student’s responsibility to have one. He or she can fulfill this requirement in several ways: purchase, rental, or lease.

Williams Student Services Center
Phone: (405) 325-4096
Teri Reed Rhoads, Director
Lisa Schmidt, Assistant Director
Sue Mobley, External Student Affairs Coordinator
Rose Burrell, Senior Academic Counselor
Francy Greenlee, Diversity Coordinator
Julie Cobb, Staff Assistant

The Williams Student Services Center (WSSC) staff helps current and prospective College of Engineering students meet career and academic goals through academic advising, student support services, leadership development, and other programs designed to recruit, retain, and graduate the best possible engineering students. Tutoring, mentoring, College of Engineering scholarships, diversity initiatives, and many college-wide events such as the College’s Career Fair, annual Open House, and Convocation are coordinated by WSSC staff. For more information visit the WSSC in Felgar Hall 112, www.coe.ou.edu/wssc, call (405) 325-4096, or e-mail us at coe.wssc@ou.edu.

ENGINEERING EDUCATION
Phone: (405) 325-4161
Teri Reed Rhoads, Director
Susan Calonkey, Assistant to the Director

The Engineering Education area of the Williams Student Services Center is responsible for core curriculum, honors courses, accreditation, curriculum assessment, undergraduate student programs, and administers the College of Engineering scholarship programs. The center is located in Felgar Hall, Room 113, and may be accessed by calling (405) 325-4161.

Strategy for Academic Excellence
It is the goal of the faculty, staff, and advisers of the College of Engineering to provide the most complete and comprehensive learning experience possible to the student. Our vision is to produce engineering graduates who are pacesetters in a rapidly changing, technology-driven world—graduates sought first by both industry and investors as engineers, technology managers in existing companies, and entrepreneurs of technology-based companies. This is being accomplished by transforming our faculty expectations and our approach to student mentoring, and by adjusting our curricula to align with the realities of a knowledge-based economy.

Strategies to make this vision a reality for our students include:
• Enhancing the traditional role of teaching excellence and mentoring by becoming a leader in the demonstration of technological innovation and personal creativity in the knowledge delivery and learning process;
• Expanding traditional faculty research through leadership in the creation of new technology and processes, industry partnerships in product development, and economic development through the spin-off of new technology-based ventures;
• Attracting the very best students through our demonstrated leadership in producing graduates widely known for their ability to not only get jobs, but to create jobs as well; and
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College of Engineering

• Becoming the catalyst which brings together the best minds from OU, the private sector, and government agencies to acquire the technical and scientific resources to make OU a premier research center, serving all facets of the worldwide energy industry.

The implementation of these strategies ensures the OU engineering student one of the best, well-rounded, interdisciplinary, technology-based engineering educations in the country.

Undergraduate Programs

SCHOOL OF AEROSPACE AND MECHANICAL ENGINEERING
• Bachelor of Science in Aerospace Engineering
• Bachelor of Science in Mechanical Engineering (pre-med elective pattern also available)
• Accelerated BS/MS in Aerospace Engineering
• Accelerated BS/MS in Mechanical Engineering

SCHOOL OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE
• Bachelor of Science in Chemical Engineering (biotechnology and pre-med elective patterns also available)

SCHOOL OF CIVIL ENGINEERING AND ENVIRONMENTAL SCIENCE
• Bachelor of Science in Civil Engineering
• Bachelor of Science in Environmental Engineering
• Bachelor of Science in Environmental Science
• Accelerated BS/MS in Civil Engineering

SCHOOL OF COMPUTER SCIENCE
• Bachelor of Science in Computer Science
• Accelerated BS/MS in Computer Science

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING
• Bachelor of Science in Computer Engineering
• Bachelor of Science in Electrical Engineering
• Accelerated BS/MS in Computer Engineering/Computer Science
• Accelerated BS/MS in Computer Engineering/Electrical Engineering

DEPARTMENT OF ENGINEERING
• Bachelor of Science in Engineering (elective pattern in pre-architecture)

PROGRAM IN ENGINEERING PHYSICS
• Bachelor of Science in Engineering Physics (jointly administered by the Department of Physics in the College of Arts and Sciences and the College of Engineering)

SCHOOL OF INDUSTRIAL ENGINEERING
• Bachelor of Science in Industrial Engineering (information technology and pre-medical elective patterns also available)
• Accelerated BS/MS in Industrial Engineering
• Accelerated BS/MBA in Industrial Engineering/Business Administration

MEWBOURNE SCHOOL OF PETROLEUM AND GEOLOGICAL ENGINEERING
• Bachelor of Science in Petroleum Engineering

The following programs have been accredited by the Accreditation Board for Engineering and Technology (ABET): Aerospace Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Engineering Physics, Environmental Engineering, Industrial Engineering, Mechanical Engineering, Petroleum Engineering, Pre-Architecture Engineering.

Admission to the College

Students must be admitted to the University of Oklahoma before being admitted to the College of Engineering. Please refer to the “Admissions, Enrollment, and Graduation” section of the catalog for detailed information on admission to the University. First-year students are admitted to the University College. Inquiries concerning admission to the University and University College should be addressed to the Office of Admissions, University of Oklahoma, 1000 Asp Avenue, Norman, OK 73019-4076.

Students should carefully assess their potential to meet the College’s requirements before committing to attend the University of Oklahoma with a proposed major in engineering.

In order to be eligible for admission to the College of Engineering, applicants who are direct from high school must be admitted to OU and have earned 24 semester credit hours with a combined retention grade point average of 2.00 or higher.

Nonresidents of Oklahoma transferring to the University of Oklahoma College of Engineering must have a retention GPA of 3.00, regardless of the institution from which they are transferring.

The Schools of Aerospace and Mechanical Engineering, Computer Science, and Electrical and Computer Engineering have requisite course and additional grade point average requirements. For details see the individual school sections of this catalog.

Scholastic and Special Regulations

TRANSFER CREDITS

The College of Engineering subscribes to the grading practices and policies in effect at the University of Oklahoma. Special considerations after admission are:


b. Students should visit the Williams Student Services Center (FH 112) to determine exactly how their transfer credits apply to their College of Engineering degree program.

c. Pass/no pass course enrollments may not be used to satisfy College of Engineering course requirements.

d. Academic credit from any division of the University of Oklahoma—Norman campus, OU Health Sciences Center, OU-Tulsa, or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of admission or readmission to the University, and to the individual colleges within the University. (See also Residence Requirements under Graduation Requirements.)

e. A minimum grade of C is required for each course offered toward the degree.

f. The Schools of Aerospace and Mechanical Engineering, Computer Science, and Electrical and Computer Engineering have additional grade point average and course requirements. For details, see those sections in this chapter of the catalog.

ACADEMIC PERFORMANCE

A student must maintain at least a 2.00 average (C) in order to be in good standing in the College. Any student whose combined or OU retention grade average falls below 2.00 is on academic performance contract. Further, any student whose major or curriculum OU and/or combined retention grade point average falls below a 2.00 is on academic performance contract. Students on contract may be denied enrollment privileges in upper-division major courses and are not allowed to pre-enroll. The OU retention GPA must be at least a 2.00 or greater after one semester or the student will be stopped from the College of Engineering. In addition, these students are required to complete the Student Behavior Inventory (SBI) and attend at least two Student Success Series Seminars each semester they are on contract.
Students are also on contract if they take a required curricular course twice and do not successfully complete it the second time (with a minimum grade of C). These students must take the course the next time it is offered and must complete it with a minimum C grade. Otherwise they will be permanently stopped by the College of Engineering.

Any student who is on academic contract will not be allowed to enroll after classes begin.

If, at any time during a semester, the scholastic standing in any class of a student on contract is deemed unsatisfactory (for instance, if the prerequisites are not met), the College office will recommend to the Office of Admissions and Records that the student be withdrawn from the class.

A student on academic contract in the College of Engineering or on academic probation with the University may not hold office in any student organization in the College of Engineering or in any University sponsored or recognized organization or activity.

ENROLLMENT STOPS AND READMISSION

Students on academic performance contract who fail to bring their OU and combined GPA to 2.0 after one semester will have an enrollment stop placed by the College of Engineering. A student who has taken a curricular course twice and not completed it for curricular credit (for instance, has made a D, F, I, U, AW, W, or AU) is on contract. If the student does not successfully (grade of C or better) complete the course the third time it is taken, the student is stopped from the college. A student with a stop from the College of Engineering may be eligible for enrollment in another college under the University retention policy. To continue at the University of Oklahoma, the student will need to make an appointment with the Center for Student Advancement, Old Science Hall, Room 311, or call 325-2574. However, even if the student is able to continue at the University, further enrollment in College of Engineering courses is not allowed.

A student with an academic stop from the College of Engineering is unlikely to be readmitted to the College.

UNIVERSITY PROBATION AND SUSPENSION

Students should consult the “Admissions, Enrollment and Graduation” section of this catalog for the policy concerning University probation and suspension.

HONOR ROLL

To be eligible for the College of Engineering Dean’s Honor Roll, a full-time undergraduate student must earn at least 12 or more hours (hours of A, B, C, D, P, S) and attain a grade point average of 3.00 or higher during a regular fall or spring semester. Part-time students may qualify for the honor roll by earning at least six but less than 12 hours and attaining a grade point average of 3.00 or higher, provided they have no W’s for that semester.

There is no college honor roll during the summer session or during intersessions, and hours and grades earned during these sessions are not included in any way in determining eligibility for inclusion on regular semester honor rolls.

CONDUCT OF ENGINEERING COURSES

A student is responsible for the prerequisite and the content of any course in which he or she is officially enrolled. The establishment of specific policy concerning class attendance requirements, as well as announced and unannounced examinations, is the responsibility of the individual instructor. When absences seriously affect a student's classwork, the instructor may report this fact to the Office of Admissions and Records and the information will be directed to the student’s college dean.

The College of Engineering requires comprehensive examinations to be given during the regularly scheduled examination periods in all undergraduate courses excluding directed readings, pure laboratory courses and project type design courses and seminars. No faculty member is authorized to depart from this regulation or from the published examination schedule for a class or an individual without prior approval. Special early examinations given to individual students or groups of students as substitutes for final examinations are prohibited. A student will not be expected to take more than two examinations in one day.

ACADEMIC APPEALS

The College of Engineering has established an Academic Appeals Panel to hear grade appeals and academic misconduct cases. To obtain the procedures to be followed, a student should contact the Associate Dean in CEC 107, and refer to Title 14 of the Student Code.

OFFICIAL NOTICES

Students should watch the bulletin board in the Williams Student Services Center, the Williams Student Services Center home page and/or their school office within the College for notices. An official notice, posted for 48 hours, is considered sufficient notification to students of any change in program or other changes of a similar nature.

Enrollment Information

CREDIT HOUR LOAD

Students normally enroll in 12-19 hours of work. Enrollment in more than 19 credit hours is permitted only with the approval of the Williams Student Services Center Director (FH 112). Permission to carry more than 19 hours will depend primarily on the student’s scholarship record and his/her ability to carry increased loads. State Regents limit the overload to a number of semester hours 50 percent greater than the number of weeks in the applicable term.

ADVICE

All students in the College of Engineering are assigned an adviser in their major field. If a student has not yet selected a specific engineering field, he/she will see an adviser in the Williams Student Services Center who can assist in making this choice. Students risk delaying their graduation if they do not make a timely selection of a major. Students must consult with and obtain the signature of the adviser in order to be cleared for enrollment. The College of Engineering does not permit “self-advising.”

ENROLLMENT IN UPPER-DIVISION COURSES

Enrollment in upper-division College of Engineering courses, except any courses specifically exempted in the General Catalog or Class Schedule, is restricted to students who are admitted to the College of Engineering and in some cases to those admitted to a specific degree program, have completed the necessary grade and course prerequisites, and are advised into the classes by their engineering faculty or staff adviser. Qualified students from outside the College of Engineering are welcome in advanced courses if they have the necessary grade and course prerequisites, and are encouraged to explore specific interests with the schools and instructors involved. Approval must be obtained from the professor teaching the course and the director of the Williams Student Services Center, FH 112.

ENROLLMENT LIMITATIONS

1. Pass/no pass course enrollments may not be used to satisfy College of Engineering course requirements.
2. Students may not proceed in their major courses until they have achieved a minimum grade of C in all prerequisites.
3. Students may take a course in their curriculum only three times (this includes I, AU, W, AW, D, F). If the course is taken unsuccessfully three times and is a course required in all curricula in the College of Engineering, the student will receive a permanent Enrollment Stop from the College of Engineering. If the course is taken unsuccessfully three times and is required only in the major, the possibility of a student continuing in the College of Engineering in a different major will be determined on an individual basis.
4. When courses are repeated, the last time a student takes a course is the grade of record.

Basic Degree Requirements

The basic requirements listed below may be completed in four years by the exceptional student. Most high school graduates should plan on nine or 10 semesters of study. Students with deficiencies in their English, mathematics,
or basic science skills may require additional coursework to reach the necessary level of college preparation. These students should plan on additional semesters of study.

All undergraduate students majoring in a professional engineering program of the College of Engineering must satisfactorily complete the curriculum outlined below. For more complete information concerning the requirements for each degree, see the curriculum listed under each school of specialization. Curriculum check-sheets are also available in the Williams Student Services Center, FH 112, and on the OU home page at http://www.ou.edu/bulletins/degree-sheets/degindx.htm.

Students with undecided majors should decide on a specific engineering major prior to the completion of 24 semester hours.

## CORE PROGRAM

All engineering curricula within the College of Engineering contain a “core” program of coursework. The core program consists of courses in mathematics, basic science and engineering science. Placement in mathematics and chemistry courses is based on high school preparation and performance on placement examinations. A student may enter a core sequence (such as Math 1823, 2423, 2433 and 2443) at a level appropriate for his/her ability. However, college credit must still be obtained for each of the courses listed below. A student relieved from any course must gain college credit by advanced standing examination or by substituting a course with school and adviser approval. The following courses constitute the “core” program.

### Mathematics
- 1823, Calculus and Analytic Geometry I
- 2423, Calculus and Analytic Geometry II
- 2433, Calculus and Analytic Geometry III
- 2443, Calculus and Analytic Geometry IV

### Basic Science
- Chemistry 1315, General Chemistry
- Physics 2514, General Physics for Engineering and Science Majors
- Physics 2524, General Physics for Engineering and Science Majors

### Engineering Sciences—Required:
- 1112, Introduction to Engineering
- 2113, Rigid Body Mechanics
- 2213, Thermodynamics
- Computing: Structured Programming Language. (The College of Engineering believes that all engineering students should have a background in structured programming. Each school will determine the course(s) in structured programming language(s) that best fit the needs of its students.)

### At least nine hours from the following:
- 1213, Graphics and Design
- 2153, Strength of Materials
- 2313, Structure and Properties of Materials
- 2613, Electrical Science
- 3223, Fluid Mechanics
- 3293, Applied Engineering Statistics
- 3723, Numerical Methods for Engineering Computation

## GENERAL EDUCATION REQUIREMENTS

All College of Engineering students who obtained their first college credit during Fall 1990 or later are required to satisfy the University-wide General Education course requirements. Courses must be chosen from five areas.

### I. Symbolic and Oral Communication

This area requires six hours of grammar and composition, foreign language, and three hours of mathematics. Current degree requirements in all College of Engineering curricula satisfy all general education English and mathematics requirements. The foreign language requirement can be satisfied by either two years of the same foreign language in high school or two semesters at the college level.

### II. Natural Science

Requires two courses totaling eight hours in two different sciences; at least one course must include a laboratory component. Engineering students must satisfy this requirement with the physics and chemistry courses currently required.

### III. and IV. Humanities/Social Sciences

Requires 12 hours, plus U.S. Government and American History. The 12 hours must be chosen, three hours each, from four areas: (1) social sciences; (2) understanding artistic forms; (3) western civilization and culture; and (4) non-western culture. General education requires that three hours of these 12 hours be upper-division; however, the College of Engineering requires six hours at the upper-division level. Since only a small number of upper-division courses are approved by the General Education Committee for social science and art forms, the College of Engineering recommends students take their upper-division courses in the Western and Non-Western Culture areas.

### V. Senior Capstone Course

This requirement will be satisfied by a senior design course designated as a capstone course. The capstone course must be taken at OU.

Students whose first college work was prior to Fall 1990 or who have transfer coursework completed prior to Fall 1990, do not have a foreign language requirement and must meet an alternative 12 hour Humanities/Social Sciences requirement. Information on the alternative requirement is available in the Williams Student Services Center.

## PETITIONS

### General Education

Any departure from the General Education rules and regulations must be petitioned to the Provost’s Advisory Committee on General Education. This petition must be submitted through the Williams Student Services Center.

### College of Engineering

Any departure by a student from the curriculum requirements, other than General Education, and scholastic rules must be approved by a petition in the school of the student’s major, and must not conflict with existing University regulations. A student submitting a petition must obtain the written recommendation of his/her adviser and submit it to his/her major school for faculty action. Petitions should be submitted in a timely manner since time restrictions can preclude their consideration. After a decision of petitions, they are forwarded to Williams Student Services Center to be placed in the student’s permanent record in the College.

## Second Bachelor’s Degree

A student who has completed the requirements for the bachelor’s degree at OU may also receive a second bachelor’s degree at OU upon the completion of the curriculum prescribed for the second degree, provided that the work completed includes at least 30 additional hours of upper-division engineering, applied science and elective courses appropriate to the field of the second degree at OU. These courses must be over and above the hours completed for the first degree. All admission, retention and graduation requirements listed previously hold for the second degree.

The curriculum to be followed will be decided jointly with the student, the faculty adviser, and the Williams Student Services Center, according to current University policy.

## Minors

The College of Engineering does not offer engineering minors; however, the School of Computer Science in the College of Engineering offers a minor. In addition, engineering students may complete minors in other areas—such as math, chemistry, philosophy, etc.—and these will be posted on the transcript after graduation.

For details of the Computer Science minor, students should check with the Williams Student Services Center, FH 112, or the Computer Science home page at http://www.cs.ou.edu. For other minors, students should check with the college which offers the minor for specific requirements and declaration of the minor.

## BS/MS Accelerated Degree

Several engineering programs offer accelerated BS/MS degrees. These degrees are designed to be completed in 5 years for the student who is curriculum ready upon beginning the freshman year. Several of the senior level courses are taken at the graduate level and are counted in both degrees. For further information, see details under the information about the schools and their degree program or contact Williams Student Services Center at (405) 325-4096.
Graduation Requirements

BASIC REQUIREMENTS

The College of Engineering is organized into departments and schools. The degree of Bachelor of Science qualified by the name of the engineering field pursued is conferred upon graduates of the College.

The student must satisfy the following requirements:

1. Curricular Courses: complete all prescribed curricular courses or equivalent courses as approved by the faculty with a minimum grade of C in each course.

2. Two-year College Transfer Credits: a minimum of 60 semester hours must be earned in a senior college for a baccalaureate degree.

3. Catalog Requirements: fulfill all requirements listed in the catalog. Although the dean’s office and school office check each student’s records, the responsibility for meeting graduation requirements lies with the student, and not with the adviser, the school or the dean.

4. Be in good academic standing with the College and the University.

5. Make application for the degree by the deadline date for the semester in which the student plans to graduate. The deadline date will be posted on the Williams Student Services Center bulletin board, FH 112.

6. To insure that the above conditions will be met, the student should request the Williams Student Services Center to make a degree check by completing the Graduation Self Check form. This action should be taken no later than the semester before the student expects to graduate. The student Advisement and Degree Audit (A/DA) is an advising tool which may be used as a tentative semester by semester graduation check. Questions should be addressed to the Williams Student Services Center (FH 112).

7. Residence Requirements—to be recommended for a degree, a candidate must have:
   a. spent two semesters or the equivalent in residence, with at least one semester enrolled as a College of Engineering student;
   b. completed at OU 36 of the hours listed in the junior and senior years on their curriculum checksheet and A/DA (Advisement and Degree Audit), 24 of these 36 hours must be in the major field;
   c. fulfilled the grade and grade point requirements of the College and School;

NOTE: Academic credit from any division of the University of Oklahoma—Norman campus, OU Health Sciences Center, OU-Tulsa, or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of determining completion of degree requirements.

8. Three categories of degrees are offered in the College of Engineering as follows:
   a. Bachelor of Science: the College of Engineering is organized into departments and schools. The degree of Bachelor of Science qualified by the name of the engineering field pursued is conferred upon graduates of the College.
   b. Distinction: the faculty may recommend that the degree With Distinction be conferred on students who have a combined cumulative grade point average of 3.40 and With Special Distinction on students who have a combined cumulative grade point average of 3.70.
   c. Honors: the Honors College may recommend the degree cum Laude, Magna cum Laude or Summa cum Laude. Special requirements, in addition to the regular requirements for graduation, are approved by the Honors College.

Degrees are formally conferred at spring commencement and convocation exercises. However, degrees are also awarded in absentia at the end of each fall semester and in absentia at the end of the summer session. All diplomas are mailed to students following the official graduation date. The degree and date of the diploma are entered on the student’s permanent academic record. The date of graduation is the last day of the semester or summer session in which all requirements for the degree are completed. When a student completes all requirements for a degree, other than at the close of a semester or summer session, the Office of Academic Records, upon request, will issue a certified statement that the student is eligible for the degree as of the date when the requirements for the degree were completed.

GRADE AVERAGE REQUIREMENTS

For information on the State Regents Repeat/Reprieve Forgiveness Policy and Retention/Cumulative GPAs, see the “Academic Standards” section of this catalog.

In order to graduate, a student must have:

1. A minimum grade of C in each course required in the curriculum.

2. Both an OU retention and a combined retention grade point average of 2.00 or higher.

3. A 2.00 (C) or better combined retention average for all attempted courses presented to satisfy curriculum requirements. Curriculum requirements include each and every course on the selected degree requirement sheet.

4. A 2.00 (C) or better OU retention average for all courses attempted at the University of Oklahoma used to satisfy curriculum requirements.

5. A 2.00 (C) or better OU and combined retention average in all courses taken in the major field. Major field is defined by the degree field selected.

For purposes of graduation and retention, these grade point averages may be affected by academic forgiveness policies. Students should consult the “Admissions, Enrollment and Graduation” section of this catalog for more information.

Students not meeting the grade average requirements explained above have grade point deficiencies, and they must undertake efforts to raise their grade point average. This must be done with the approval of the Williams Student Services Center and the faculty adviser.

TIME LIMITATIONS ON COURSEWORK

A student may elect to graduate under the requirements for an undergraduate degree set forth in the catalog in effect at the time of his or her first enrollment in the state system, provided that he or she completes the work for a degree within a maximum of six years. If the work for a degree covers a period longer than that specified by the College, the College will determine the catalog to be in effect for that student’s graduation.

A student whose initial enrollment in the state system is during the summer session will be subject to the University of Oklahoma catalog in effect for the year following that summer.

Credit in the student’s major field or area of concentration which is more than 10 years old may not be applied toward a bachelor’s degree unless it is validated by the major department, or by the departments in the student’s area of concentration. (The term “area of concentration” is included in addition to “major field” to allow for those cases in which the equivalent of a major may be earned by a combination of work in several departments.)

Other Information

CO-OP PROGRAM

The Co-op Program offers a work-study experience which combines a sequence of academic study and engineering employment in industry or government. Participating in the Co-op Program allows the engineering student to gain first-hand experience in the application of academic studies to engineering problems. The student makes personal contact with practicing engineers which may be useful in furthering long-term career goals. The co-op student receives compensation during work periods, which may assist in financing his or her education, and earns academic credit for the co-op work, of which up to three credit hours may be applied toward a degree program.

Participation in the Co-op Program is optional and open to students enrolled full time in a degree program administered by the College of Engineering. Students who wish to participate in the Co-op Program must have completed all of the requirements of the first year of their degree program with a minimum 2.50 GPA. Students must also have the approval of the Director of the school of their major. Employment in a co-op position requires the approval of the participating company. Interested students should apply as soon as possible during their first three semesters on campus.
The time required to complete an engineering degree program as a co-op student will be longer than the usual eight semester program. (Caution: Major courses in several COE degree programs are sequential and offered only one time per year.) For further information and application forms contact the Co-op Coordinator at Career Services, Oklahoma Memorial Union, Suite 323, (405) 325-1974.

ENGINEERING SOCIETIES AND CLUBS

It is important that the student become acquainted with people of the industry and meet as many practicing engineers as possible. The best and easiest way of doing this is to become an active member of a student organization which is affiliated with one of the national engineering societies.

Departmental clubs and societies, arranged in order of establishment, are given below: Engineers’ Club, 1910; Institute of Electrical and Electronic Engineers, 1912; American Society of Civil Engineers, 1912; American Society of Mechanical Engineers, 1914; Loyal Knights of Old Trusty, 1920; Knights of St. Patrick, 1924; Sigma Tau Gamma, 1927; Society of Petroleum Engineers, 1933; American Institute of Chemical Engineers, 1935; Society of Automotive Engineers, 1938; Pi Tau Sigma, 1939; American Institute of Aeronautics and Astronautics, 1942; Eta Kappa Nu, 1942; Pi Epsilon Tau, 1947; Society of Physics, 1948; Institute of Industrial Engineers, 1950; Alpha Pi Mu, 1968; Association for Computing Machinery, late 1970s; Chi Epsilon, 1983; Society of Manufacturing Engineers, 1984; Alpha Sigma Kappa, 1997; OU Robotics Club, 1999; Deans Leadership Council, 2002; Biomedical Engineering Society, 2002; Society of Women Engineers; Tau Beta Pi; Triangle Fraternity for Scientist, Engineers and Architecture; American Society of Heating, Refrigeration and Air-Conditioning; Environmental Science Student Association; Human Factors Society; American Indian Science and Engineering Society; National Society of Black Engineers; and Society of Hispanic Professional Engineers; Institute for Operations Research and the Management Scientists.

The Engineers’ Club at the University of Oklahoma was founded in 1910 and has grown to be one of the largest student organizations on campus. Its main function is to promote fellowship among faculty and students while governing extracurricular activities for engineers. The Engineers’ Club meets once a month. A typical meeting is likely to include officer and chairperson reports, entertainment, a technical program and a short informal social gathering with refreshments.

Within the club is the quasi-legislative body, St. Pat’s Council, composed of representatives from all engineering organizations and a service organization, Loyal Knights of Old Trusty.

The main activities of the club are the College of Engineering Fall Festival, Open House, Career Fair, and Engineers’ Week including a banquet, and the crowning of the Engineers’ Queen and King.

The Society of Women Engineers or SWE Chapter in the College of Engineering is part of a national organization for women in engineering. Monthly meetings are held to discuss issues of interest to the growing number of women enrolled in the College of Engineering.

National student chapters of the American Indian Science and Engineering Society, Society of Black Engineers, and the Society of Hispanic Professional Engineers is to assist in the recruitment and retention of multicultural engineering and science students at the University of Oklahoma.

HONOR SOCIETIES AND ORGANIZATIONS

Students in the College of Engineering at OU have numerous opportunities for leadership, honor, and recognition through university-wide honor societies and organizations such as: Alpha Lambda Delta, Phi Eta Sigma, the “Top Ten” programs, Golden Key, Tassels, Big Man on Campus/Big Woman on Campus, Omicron Delta Kappa, Mortar Board, Letzeyer Awards, and Order of the Omega.

Tau Beta Pi, honorary society in engineering, was founded at Lehigh University in June, 1885. Its purpose is to offer students of technical schools of America membership in an honorary association. It is not wholly a professional society since students who are qualified in any branch of engineering may become members. The annual election to the society, which is based upon scholarship, integrity, breadth of interest (both inside and outside of engineering), adaptability and unselfish activity, is limited to the upper one-fifth of the senior class and to the students who have grade averages within the upper one-eighth of the junior class. The government of the organization in each chapter is under the direction of the elected student officers and an advisory board consisting of four faculty members of Tau Beta Pi. Membership in Tau Beta Pi is one of the highest scholastic honors that an undergraduate engineering student can receive. The Oklahoma charter was granted in 1926.

In addition to the above honorary societies open to selected students of all College of Engineering schools, chapters of the following honorary fraternities are active at the University of Oklahoma: Sigma Gamma Tau, 1927, national honorary aerospace engineering fraternity; Pi Tau Sigma, 1939, national honorary mechanical engineering fraternity; Eta Kappa Nu, 1942, national honorary electrical engineering fraternity; Pi Epsilon Tau, 1947, national honorary petroleum engineering fraternity; Sigma Epsilon, 1916, national honorary geology fraternity; Alpha Chi Sigma, 1919, national honorary chemistry fraternity; Pi Mu Epsilon, 1929, national honorary mathematics fraternity; Sigma Pi Sigma, 1930, national honorary physics fraternity; Alpha Phi Mu, 1968, national honorary industrial engineering fraternity; Tau Sigma Delta, 1968, national honorary architecture fraternity; Chi Epsilon, 1983, national honorary civil engineering fraternity.

INTERNSHIPS

The College of Engineering encourages all students to spend at least one summer as an intern either with College faculty assisting with research or with industry. Both the Williams Student Services Center and the OU Career Services office work to facilitate this process.

MULTICULTURAL ENGINEERING PROGRAM

Francy Greenlee, Diversity Coordinator

The University of Oklahoma Multicultural Engineering Program’s mission is the recruitment and retention of high school and community college students in the College of Engineering. Academic and professional support include a freshmen orientation course, tutoring, career and employment assistance, and a scholarship program. Scholarships are available on a competitive basis with need and academic achievement used as selection criteria. Information may be obtained by contacting: Multicultural Engineering Program, 865 Asp Avenue, 112 Felgar Hall, Norman, OK 73019-1053, (405) 325-4096.

STUDY ABROAD PROGRAMS

The College of Engineering encourages students to participate in the excellent Study Abroad programs sponsored by the University of Oklahoma. There are three programs specifically for College of Engineering students which take place during the summer: one to Clermont-Ferrand, France for General Education approved social science and western civilization courses; and the others to Guadalajara, Mexico, and Bangkok, Thailand. These courses are taught in English. Some scholarships are available to assist students who participate in these programs.

In addition, many students choose to spend a semester or year studying engineering and/or other subjects in one of the over 35 countries’ 105 universities with which the University of Oklahoma has reciprocal agreements. For further information, see: www.ou.edu/intporg/edexops.htm.
Scholarships and Financial Aid

Students with majors in the College of Engineering are eligible for merit-based scholarships administered through the College of Engineering Dean’s Office, the individual schools within the College of Engineering, or the OU and National Scholars Offices. The scholarships are listed in the publication, A Guide to Scholarships & Financial Aid, which is available from the Office of Prospective Student Services, (405) 325-2151, or 1-800-234-6868.

Incoming freshmen and new transfer students are encouraged to obtain scholarship applications and apply to the Dean’s Office, the school of your major within the College of Engineering, and for University scholarships. Please refer to application forms for scholarship deadlines. Deadlines must be met for proper consideration for the academic year.

Incoming freshmen should fill out only one Incoming Freshman Scholarship Application form to be considered for any scholarship the College of Engineering Dean’s Office has available through the Distinguished Freshman Scholarship Program.

Transfer students should fill out only one Transfer Student Scholarship Application form to be considered for any scholarship the College of Engineering Dean’s Office has available for transfer students.

Sophomores, juniors and seniors should apply through the school of their major to be considered for any scholarship the Dean’s Office has available, with the exception of general engineering and engineering physics majors who should apply through the Dean’s Office Scholarship Coordinator, Felgar Hall, Room 113.

Students entering the University should also explore scholarships offered by their hometown, civil service, fraternal, and industrial organizations. Contact the Office of Financial Aid Services for all need-based aid.

General Information

AEROSPACE ENGINEERING

Aerospace engineering is one of the most rewarding and challenging careers available. There is a fulfilling excitement in designing and building flying craft ranging from general aviation to high performance military aircraft and commercial airliners. There are also opportunities in the design and flight of spacecraft. Challenging space projects are awaiting the next generation of engineers. Aerospace technology has also expanded to include ground effect machines, helicopters, hydrofoil ships, high-power lasers, wind turbines, and high-speed rail vehicles, opening up even more career opportunities for aerospace engineers.

Careers

Aerospace engineers can expect to work in industries or government agencies whose mission is to design, test, manufacture or operate aircraft or spacecraft. Opportunities are available in private companies that build large commercial aircraft and companies that specialize in the smaller general aviation aircraft. Careers are available in military aircraft, missiles or spacecraft either in private industry or as an engineer employed by one of the military services.

Engineers employed by the National Aeronautics and Space Administration are involved in research, design, development and operation of the U.S. space program and in many aspects of aeronautics. Also many graduates find satisfying careers in applying the broad engineering knowledge acquired in the study of aerospace engineering to many other areas of technological development.

MECHANICAL ENGINEERING

Mechanical engineering is one of the most versatile of all engineering programs. Virtually all branches of industry employ mechanical engineers. The profession encompasses breadth, flexibility and the opportunity for great individuality. Mechanical engineers apply knowledge of thermal sciences, fluid and solid mechanics, and mathematics to design, develop, and build mechanical and electromechanical devices and systems.

Since virtually all physical devices and systems have one or more mechanical aspects, mechanical engineering is almost always required in the design, manufacture and utilization of any technical product or system.

Careers

The career opportunities available to mechanical engineers are truly unlimited. Mechanical engineering plays a central role in all major industries including the aerospace, automotive, chemical, computer, construction, electrical, machinery, metals, petroleum and nuclear industries. Mechanical engineers are employed in virtually every technological field including industrial machinery, farm equipment, textiles, transportation, pharmaceutical, medical instrumentation, apparel manufacturing, electronics, soap and cosmetics, paper and wood products, education, utilities, and office machinery.

In these and other fields, mechanical engineers are involved in research, development, design, production and testing, construction, operations, sales, management, consulting, and teaching. Mechanical engineers are also employed in defense laboratories and in government where they hold positions of responsibility in state and federal government, in big and small corporations, and in private practice.

CURRICULA

Beginning with Fall 2004, students majoring in aerospace or mechanical engineering will need to apply to enroll in upper-division (professional) courses in their major. Students who have obtained an OU and Combined Retention GPA of 2.8 or higher, and who have completed the Pre-professional courses (freshman and sophomore curriculum) listed in the application to the Professional program with a grade of C or better, will be admitted to upper-division courses. Transfer students who have fulfilled the Pre-professional requirements will be admitted to the Professional program conditionally until completion of at least 12 credit hours of engineering, math and/or physics toward the curriculum with a 2.8 OU
and combined retention GPA. This requirement will apply to freshmen and transfer students entering OU beginning with Fall 2004. All current OU students classified as AE or ME majors as of May 1, 2004 and who meet College enrollment qualifications will be grandfathered into upper-division AME courses through Fall 2006.

The aerospace and mechanical engineering curricula are designed to prepare the student either to enter directly into industry or to continue in a program of graduate study. Each curriculum plan is carefully designed to ensure that students can successfully utilize and build upon engineering and scientific principles as they progress in their chosen area. Within this structure, advanced technical electives allow students to center their programs around particular areas of interest. In aerospace engineering, such interest areas include aerodynamics, aerospace structures, propulsion systems, intelligent systems, and composite materials. Mechanical engineering emphasizes such areas as mechanical design, thermal sciences, stress analysis, vibrations, control systems, computer-aided engineering, fluid mechanics. Each major is expected to work closely with a faculty adviser on a regular basis to achieve the program to meet his or her needs. Students considering a major in aerospace or mechanical engineering should contact the school office for a detailed description of the programs within these areas.

Undergraduate Study

CURRICULUM IN AEROSPACE ENGINEERING

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 128 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 75 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two college-level consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 28 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524; C S 1313.
6. Core engineering: 11 hours. ENGR 1112, 2113, 2213, 2313.
7. AME courses: 12 hours. AME 3103, 2223, 2533, 2623.

* Three of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) must be at the upper-division level (3000-4000).

UPPER DIVISION REQUIREMENTS

The upper division (3000- and 4000-level courses) requirements of 48 hours are to be met as follows:

1. Core engineering: 3 hours. Engineering 3723.
3. AME: 25 hours. AME 3112, 3143, 3153, 3122, 3173, 3353, 3363, 4163, 4553.
5. Experimental elective: 2 hours.
6. Engineering science electives: 6 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

PREMEDICAL ELECTIVE PATTERN

The understanding of many physical phenomena associated with the human body is enhanced by the knowledge gained in the study of mechanical engineering. The fluid mechanics of the cardiovascular system, the kinetics and stress analysis of orthopedics, the dynamics of the auditory system are but a few examples of the interaction of mechanical engineering and medicine. Research and development of many diagnostic and treatment techniques are intimately interwoven with principles studied in mechanical engineering.

Students enrolled in the Mechanical Engineering B.S. curriculum and interested in studying medicine or dentistry may choose a premedical elective pattern. This elective pattern allows the student to earn a B.S. degree in Mechanical Engineering and satisfy the prerequisite course requirements for the University of Oklahoma's medical or dental schools.

CURRICULUM IN MECHANICAL ENGINEERING—PREMEDICAL ELECTIVE PATTERN

(Accredited by the Accreditation Board for Engineering & Technology)

This program requires a minimum of 134 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 86 hours are to be met as follows:

1. Communication: 9 hours. English 1113 and 1213; communication elective.
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the total hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 35 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524; ZOO 1114, 1121.
7. AME courses: 9 hours. AME 3103, 2303, 2533.

UPPER DIVISION REQUIREMENTS

The upper division (3000- and 4000-level courses) requirements of 48 hours are to be met as follows:
1. Core engineering: 3 hours. Engineering 3723.
2. Math and science: 17 hours. Math 3113, Physics 3223; ZOO elective; CHEM 3053, 3153, 3152.
3. AME: 25 hours. AME 3112, 3143, 3153, 3122, 3173, 3353, 3363, 4163, 4553.
4. Engineering science elective: 3 hours.

Pre-med students should consult their pre-med adviser as well as their Mechanical Engineering adviser for necessary medical school information.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

Graduate Study

The School of Aerospace and Mechanical Engineering offers a broad range of opportunities for advanced academic study and research in the fields of aerospace and mechanical engineering and in the underlying engineering sciences.

The following paragraphs present only the standard minimum requirements and are no more than guidelines, not intended to exclude consideration of any valid academic objectives. The admission evaluation, the academic plan, and the research studies of each student should represent a unique synthesis of program strengths and resources with that student's background and aspirations.

Questions about the programs or about any specific requirement or consideration may be addressed to the AME Graduate Studies Coordinator at the School of Aerospace and Mechanical Engineering, 865 Asp Avenue, Felgar Hall Room 212, University of Oklahoma, Norman, OK 73019-1052.

Areas of Specialization

There is a planned overlap of the graduate programs in these closely allied fields of the School, and several areas of specialization have evolved within and across these primary disciplines.

MECHANICAL ENGINEERING

These programs can be categorized into the focus areas of engineering information technology, materials, design and manufacturing; intelligent aerospace systems; bioengineering, and energy systems and propulsion. These include solid mechanics, fluid mechanics, thermal sciences and heat transfer, controls, robotics, engineering design, and bioengineering.

Current studies in solid mechanics include: experimental mechanics; plates and shells; buckling; structural dynamics; mechanical behavior of materials; analysis and processing of composite materials and structures; structural optimization; fatigue and fracture mechanics of metals and composite materials; and smart structures. Current studies in fluid mechanics include: computational fluid dynamics; compressible flows; viscous flows; non-Newtonian fluids; rheology; transport phenomena; turbulent jets and boundary layers; and multiphase flows. Current studies in thermal sciences include: theoretical and applied studies of radiative, conductive, and convective heat transfer; thermal properties of materials; combustion and flame dynamics; propulsion; gas turbine systems; mass transfer and handling of alternate fuels for automobile applications; biological heat transfer; heat transfer in porous media and EHD enhanced heat transfer. Current control studies include: design and analysis of control systems in MEMS, BioMEMS; micro systems and micro fluids; structural control; and non-linear, robust, autonomous, optimal, and real-time control of systems and vehicles.

Current engineering design studies include: energy system design; materials in design applications; product and product family design; development and applications of computer-aided design and engineering; internet based design; tool integration for concurrent engineering; computer-integrated manufacturing; and rapid prototyping. Current studies in bioengineering include: biomechanics, biomaterials, cardiopulmonary physiology; implantable devices; soft and hard tissue engineering; and neural engineering. Current studies in robotics include the design and control of autonomous systems. Additional studies include: educational technologies; multimedia and informational technologies; energy policy; decision making under uncertainty; and renewable energy.

AEROSPACE ENGINEERING

These graduate programs offer opportunities for specialization in aeroviscoelasticity; aerospace structures; structural and multidisciplinary design optimization (MDO); flight controls; aerodynamics; propulsion; combustion and flame dynamics; multiphase flows; robotics; intelligent systems; astrodynamics; space vehicle/mission design; and flight vehicle design and synthesis.

ENGINEERING ANALYSIS

Coordinated graduate programs share techniques of advanced engineering analysis, with current emphasis on finite element and quadrature element methods, differential quadrature, nonlinear analysis, variational calculus, perturbation methods, computational fluid mechanics, and optimization methodologies.

Research Facilities

The School of Aerospace and Mechanical Engineering laboratories are located in Felgar Hall, and the Engineering Research Center on North Campus. Specialized laboratories have been developed for combustion and propulsion, composite materials and structures, computational mechanics, dynamics, stress analysis and mechanical behavior of materials, fatigue and fracture mechanics, fluid flow and heat transfer, gas turbine systems, aerodynamics, laser velocimetry and fluid flow measurements, thermal imaging and radiative heat transfer, composite fuels, product and process design, computer-aided design, concurrent engineering, rapid prototyping, laser Doppler interferometry for vibration analysis, sound delivery, soft and hard tissue property analysis, multimedia and information technologies, robotics, advanced aircraft and spacecraft design, R/C model flight testing, multi-channel neural recording and stimulation, autonomous unmanned vehicles, telemetry and differential GPS systems, MEMS design, BioMEMS design and micro fluidics design. These laboratories are equipped with modern instrumentation and dedicated data acquisition systems. A network utilizing Sun workstations and a departmental PC laboratory with a host of commercial software packages are available for use in courses and research. In addition, the School participates in several multidisciplinary research centers including the Sarkeys Energy Center, Center for Structural Control, Biomedical Engineering Center, Center for Engineering Optimization, and Center for Aircraft and Systems Support Infrastructure.

Prerequisites for Full Graduate Standing

In addition to meeting the general requirements of the Graduate College, prospective students are expected to have previously earned a B.S. degree or its equivalent in the respective fields of aerospace or mechanical engineering. Students with baccalaureate degrees in other engineering disciplines, physical sciences or mathematics who meet the Graduate College requirements may be conditionally admitted to the AME graduate programs with the stipulation that they must complete specified undergraduate courses to correct identified deficiencies in their background.
In considering applicants for the graduate programs, the faculty looks for evidence of superior academic potential. This is most commonly indicated by the achievement of a grade point average of 3.00 or better on a scale of 4.00 (or an equivalent achievement as reflected in the grading system of the applicant’s previous education program) in the last 60 hours of an undergraduate degree. GRE scores, letters of reference, and the statement of purpose are also considered in the admission process. Applicants who have a strong research commitment and an intention to pursue graduate studies through the doctoral level are particularly encouraged. Details concerning the admission criteria and the required background courses may be obtained from the School of Aerospace and Mechanical Engineering.

Master of Science
The broadly structured requirements for the Master of Science degree in aerospace and mechanical engineering allow for two paths in completing an M.S. degree: a research-oriented plan of study involving the completion of an original research thesis, or a coursework-oriented plan of study providing expanded opportunities for formal instruction in advanced professional topics. These programs normally incorporate graduate-level courses in mathematics, science and advanced engineering science topics as well as some specialization in a specific area of aerospace or mechanical engineering. Each program is individually planned to meet the particular student’s needs and interest.

The M.S. degree with a research thesis requires completion of a minimum of 30 hours of approved graduate credit, including: a maximum of six hours of thesis research; 12 or more hours of 5000-level AME courses, of which no more than three hours may be in special projects or guided individual studies; and six or more hours of approved mathematical-content courses. The remaining six hours of the degree program should be chosen from approved electives in engineering, science or mathematics, including 4000-level AME courses that are not required for the bachelor’s degree in the respective field (students who elect a two-hour laboratory course may include one additional hour of special projects or guided individual studies in their program).

The coursework-oriented plan of study requires additional graduate class enrollment in lieu of a research thesis. This program requires a minimum of 36 credit hours, including at least 18 hours of graduate-level AME courses of 5000-level or higher which may include up to three hours of special projects and up to three hours of guided independent studies (students who elect a two-hour laboratory course may include an additional one hour, up to a total of two hours, in either of these individual instruction enrollments); and at least three hours or more of approved mathematical-content courses. The remaining 12 hours of graduate credit should be chosen from other approved AME courses, including 4000-level courses not required for the B.S. degree in the major field, or from other fields of engineering, physical science, or mathematics (these electives may include up to three hours of additional enrollment in guided individual studies). This plan of study also requires satisfactory completion of the comprehensive examination covering the major fields offered for the degree program. The comprehensive oral examination is to be taken and satisfactorily completed prior to or in the projected final semester of a student’s M.S. program.

The School of Aerospace and Mechanical Engineering also offers an accelerated combined BS/MS program to qualified students. This program provides the opportunity for students to complete both the undergraduate and master’s degrees in five years.

More detailed information on the M.S. degree program and its requirements may be obtained from the Graduate Studies Coordinator of the School of Aerospace and Mechanical Engineering.

Doctor of Philosophy
The doctoral degree program is designed to prepare graduates for careers in teaching and research or in professional practice at the leading edge of their field. To enter the program, students are expected either:
(a) to have completed an appropriate master’s degree at the University of Oklahoma or elsewhere, or,
(b) to have otherwise demonstrated very strong academic abilities and research potential.

Prospective doctoral candidates are expected to complete their general examination after completion of 36 credit hours of graduate work, but before completing 60 credit hours of graduate (course and research) work.

The doctoral degree program demands a broad understanding of a chosen field and the development of the in-depth knowledge required to produce innovative research and design contributions to the field with minimal direct supervision. A total of 48 semester credit hours of coursework beyond the baccalaureate, in addition to the 42 hours of dissertation, is required. At least 12 of the course hours must be appropriate science and mathematics courses including 6 or more hours of mathematics beyond the normal undergraduate requirements. At least 24 of the 48 hours of coursework shall be taken in advanced engineering courses.

Following formal admission to the doctoral program, the student and the student’s advisory committee will jointly plan a course of study designed to build upon the strength of each student’s prior background and to meet the specific needs and interests of the student and the requirements of his/her research program.

More detailed information on the doctoral program and its requirements can be obtained from the Graduate Studies Coordinator of the School of Aerospace and Mechanical Engineering.

Program in Bioengineering
Edgar A. O’Rear, Director, University of Oklahoma
Bioengineering Center
M. Ulli Nollert, Graduate Liaison
Sarkeys Energy Center, Room T-335
Norman, OK 73019-1004
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Faculty Roster
Professors Cheung, S. Lee, Liu, D. Miller, and O’Rear; Associate Professors K-H Chang, Gan, Harrison, and Nollert; Assistant Professors Ibrahim, Rennaker, Schmidlko, and Sikavitsas; Research Assistant Professor McFetridge; and participating faculty from the College of Engineering units on the Norman campus, OU Health Sciences Center, and Oklahoma Medical Research Foundation.

Degrees Offered
- Master of Science
- Doctor of Philosophy

General Information
Bioengineering is the use of engineering principles of analysis and design, and technologies to solve problems in medicine and biology. The goal of bioengineering research is to understand living systems and develop new and improved devices and products for medicine and biology. The principal objective of the graduate degrees in bioengineering is to provide a focused educational program in biomedical engineering for students seeking careers in industry, medicine, business and other fields related to biotechnology.

In addition to the M.S. and Ph.D. degrees in Bioengineering that are detailed below, students may want to consider the M.S. and Ph.D. options with concentration in Bioengineering offered by the Schools of Aerospace and Mechanical Engineering and Chemical Engineering and Materials Science, which lead to degrees in traditional disciplines of engineering with an emphasis in bioengineering. Details about these degrees are available in the pages for the schools. These complementary programs allow the individual with an interest in bioengineering to follow a curriculum best suited to his/her needs.
OU has a rich research history in biomedical engineering based on the collaborative activities of professors on the Norman and Health Sciences Center campuses beginning nearly a quarter of a century ago with early research toward an artificial liver and pioneering work in the use of thermography for mammograms. Research has more recently led to important work in the areas of blood substitutes, electrophysiology, implantable devices, software development, and rehabilitation engineering. Officially established as degree program in 2003, the program in bioengineering is designed to increase biological knowledge through the use of engineering principles and techniques and draws faculty resources from the Schools of Aerospace and Mechanical Engineering, Chemical Engineering and Materials Science, and Electrical and Computer Engineering. Research in bioengineering advances the health of the nation and provides technology that has contributed to the development of novel devices, drugs and systems. Based on a history of collaboration between professors on the Norman and Health Sciences Center campuses, the OU College of Engineering received a special opportunity grant in 1999 from the Whitaker Foundation to establish the University of Oklahoma Bioengineering Center (OUBC) and create a graduate program. Seven new faculty members were added to the three Schools to expand research and teaching in bioengineering specialties.

All full-time faculty hold doctorates from leading universities such as Arizona State, Bath (U.K.), Buffalo, Cornell, Illinois at Urbana, Iowa, Memphis, Ohio State, Rice, Texas, Washington, Wisconsin, Worcester Polytechnic, and Yale.

### Undergraduate Study

Undergraduate students and prospective students interested in biomedical engineering or bioengineering should follow the pre-med option available in the School of Aerospace and Mechanical Engineering (AME) or either the pre-med or biotechnology option available in the School of Chemical Engineering and Materials Science (CEMS). These curricula provide a solid foundation in engineering and the biosciences that can be supplemented with elective courses and undergraduate research opportunities available from the University of Oklahoma Bioengineering Center. Among the courses offered are introduction to biomedical engineering, biochemical engineering, bioinstrumentation, neural engineering, biotransport, medical imaging, biomaterials, biomechanics, cellular and tissue engineering, and biosensors.

### Graduate Study

#### Areas of Specialization

The faculty of the OU Bioengineering Center are involved in a diverse array of research projects that aim to increase our understanding of the human body and that develop new and improved methods of diagnosis and treatment for a wide variety of disorders. Several faculty members are developing devices that can be implanted into the body to improve hearing or that will sense the level of sugar in the blood of diabetic patients. Another type of implantable device that is being developed here is tissue engineered blood vessels for cardiac bypass surgery as well as bone tissue for reconstructive surgery. Additional projects examine how implanted devices can be physically connected to the central nervous system. Some faculty are investigating the basic biochemical properties of various types of blood cells and how the functions of these cells are altered by the fluid mechanical environment found in the blood. Other faculty members are developing novel drug delivery strategies for giving clot busting drugs to patients suffering from heart attack. Finally, some of the faculty are pioneering new methods to analyze images from x-ray and magnetic resonance imaging scans to detect cancer and other pathological conditions.

### Prerequisites for Full Graduate Standing

In addition to meeting the general requirements of the Graduate College, any student with an undergraduate degree in engineering from an accredited school may be admitted as a student in full standing. It is recommended that students entering the program have taken at least one college biology course and one college organic chemistry course. A student with an undergraduate degree in the sciences may be admitted on the condition that specified undergraduate engineering and/or mathematics courses will have to be taken for completion of the degree program, which will depend on the background of each individual student. While here the masters and doctoral students will continue to follow the general procedures of the Graduate College for their level of degree as well as the procedures of the Bioengineering Program.

#### Master of Science

The M.S. degree program requires 30 semester hours that can normally be completed in two years. A thesis is required. Coursework requirements for the Master of Science degree in bioengineering are the following:

- **Bioengineering Principles** ........................................... 3 hours
- Three graduate-level bioengineering electives ..................... 9 hours
- Two elective courses in the life sciences (chosen from the list of approved life science courses) ............................... 6 hours
- Two graduate-level elective courses in engineering, science, or math ...................................................... 6 hours
- M.S. Thesis ........................................................................ 6 hours
- **TOTAL** ......................................................................... 30 hours

#### Doctor of Philosophy

The Ph.D. degree in Bioengineering requires 90 post-baccalaureate hours, which include the courses required for the M.S. degree in Bioengineering and a minimum of nine additional hours of graduate level courses. Research credits make up the balance of the 90 hours. Three hours of this course work must be in the life sciences (graduate credit, chosen from the list below of approved life science courses), with the other six hours selected from engineering, science, or math courses (graduate credit) in consultation with the student’s research supervisor. A student with a B.S. degree may enter the Ph.D. program directly; the student is not required to complete the M.S. thesis as part of the Ph.D. degree. At the end of the program, the student will demonstrate excellence in scholarly research by authoring a Ph.D. dissertation. Outstanding students may also want to apply for the M.D./Ph.D. program offered in conjunction with the OU Medical School Oklahoma City, [http://www.ouhsc.edu/mdphd/](http://www.ouhsc.edu/mdphd/).

During the Ph.D. program, the student is required to take a general examination in accord with Graduate College requirements. For students entering with a B.S. degree, the general examination must be taken as soon as possible after the student has completed three semesters (not including the summer semester). For students entering with an M.S. degree, the general examination must be taken as soon as possible after the student has completed one semester (not including the summer semester).

#### Bioengineering Courses:

- AME 5213 Biomechanics I (Biosolids)
- AME 5223 Biomechanics II (Biofluids)
- AME 5233 Biomaterials
- AME 5710 Implantable Devices
- AME 5710 Neural Engineering
- AME/CH E 5203 Bioengineering Principles
- CH E 5243 Biochemical Engineering
- CH E 5373 Tissue Engineering
- CH E 5480 Special Topics in Chemical Engineering: Biosensors
- CH E 5293 Transport in Biological Systems
- ECE 5823 Bioinstrumentation
- ECE 5843 Medical Imaging Systems

#### Life Science Courses:

- CHEM G3653 Introduction to Biochemistry
- CHEM G3753 Principles of Biochemistry I
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CHEM 5853 Principles of Biochemistry II
CHEM 6721 Seminar-Biochemistry
CHEM 6813 Introduction to Biochemical Methods
CHEM 6823 Protein, Nucleic Acids, and Gene Expression
CHEM 6833 Structure and Function of Membranes and Hormones
CHEM 6843 Enzyme Mechanisms and Metabolic Regulation
CHEM 6853 Protein Structure and Function
HSS 5823 Exercise Physiology
HSS 5833 Advanced Exercise Physiology Laboratory
HSS 5843 Biomechanics
HSS 5863 Physiology of Aging
MBIO 3932 Instrumental Methods in Biology
MBIO 3942 Instrumental Methods Laboratory
MBIO 4833 Basic Immunology
MBIO 5620 Investigations in Microbiology
MBIO 5812 Applications of Molecular Biology Laboratory
MBIO 5822 Applications of Molecular Biology
MBIO 5833 Industrial and Applied Microbiology
MBIO 5843 Introduction to Molecular Biology
MBIO 5893 Genetics and Plasmids and Bacterial Viruses
MBIO 5971 Seminar in Microbiology
ZOO G3101 Principles of Physiology Lab
ZOO G3103 Principles of Physiology
ZOO G3333 Genetics
ZOO G3342 Genetics Laboratory
ZOO G4123 Vertebrate Physiology
ZOO G4853 Neurobiology of Memory
ZOO G4913 Quantitative Biology
ZOO 5153 Endocrine Physiology
ZOO 5203 Mechanisms of Development
ZOO 5293 Cytology Ultrastructure
ZOO 5343 Developmental Genetics
ZOO 5364 Transmission Electron Microscopy
ZOO 5374 Scanning Electron Microscopy
ZOO 6012 Professional Aspects of Biology

School of Chemical Engineering and Materials Science

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Faculty Roster
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Degrees Offered
• Bachelor of Science in Chemical Engineering
• Master of Science
• Doctor of Philosophy

General Information
The School of Chemical Engineering and Materials Science is charged with the responsibility for the undergraduate and graduate programs in chemical engineering. The faculty of this school reflects the variety of backgrounds and areas of specialization which contribute to these programs. All full-time teaching faculty hold doctorates from leading universities such as Bath (U.K.), Buffalo, California Institute of Technology, Case Western, Cornell, Georgia Tech, Houston, Illinois Institute of Technology, Northwestern, Purdue, Rice, Texas, Wisconsin, and Yale.

CHEMICAL ENGINEERING

Perhaps the most striking facts about chemical engineering are youth and variety. At the turn of the century people were discontented with simply observing chemical phenomena in the laboratory. Chemical engineering was born out of the desire to use these strange chemical behaviors to serve people and make the world a better place in which to live.

The world has entered an extremely critical period because of shortages of nonrenewable energy. The chemical engineer is an important factor in solving problems in production and use of fossil fuel resources, nuclear energy and alternate energy resources. Chemical engineers have made important contributions to the production and refining of petroleum products. They are now playing an important part in liquefaction of natural gas and gasification of coal. The use of alternate energy sources such as biomass, geothermal, ocean thermal differences, and solar are dependent on contributions made by chemical engineers.

In the space age, chemical engineers are developing nanoengineered materials that will have structural and electronic properties never before encountered. They must perfect processes for life-support systems in other environments. Chemical engineers are needed to provide the fuels for rockets and booster propulsion. They utilize computers to control and analyze complex chemical processes.

Medicine, which has taken tremendous strides in the past few decades, is quite dependent on the efforts of the chemical engineer. It is the chemical engineer who separates blood into lifesaving plasma, serum, and gamma globulin for mass distribution. The vaccines that have saved a whole generation of children from crippling are available because the chemical engineer worked out the ways to produce them safely and economically. The field of mental health has been revolutionized by drugs—astronomical in price—until the chemical engineer mass-produced them so that they are within the reach of nearly everyone who needs them.

The chemical engineer works in a variety of industries, not only the chemical industry, but also in fields of computer systems, electronic materials, environmental control, pharmaceuticals, leather, metals, space, fertilizers, textiles, glass, detergents, paper, food, pesticides, paint, and rubber. New fields are constantly being added.

Briefly, the job of the chemical engineer is to make commercial application of the chemist’s and biologist’s discoveries. This is not as easy as it sounds, for enormous problems are encountered when the company tries to produce by the ton material that the chemist made by the ounce in the laboratory.

It is the chemical engineer who develops an economical process for producing a marketable product. The development of penicillin is just such a case. The chemist Sir Alexander Fleming discovered the wonder antibiotic in a Petri dish in his laboratory. The batches produced in a laboratory can hardly supply the millions of people around the world that need the drug, and the cost of a prescription would be exorbitant. Chemical engineers had to develop a continuous process for producing penicillin. Through the efforts of these engineers, millions of lives have been saved.

There are many other kinds of jobs for chemical engineers. A chemical engineer in plant operations must supervise the production process to see that the plant produces a scheduled amount of high-quality material economically. To do this, the engineer is very much involved in managing people and machines. The research chemical engineer has an analytical mind and likes to solve problems in the technical frontier. If the engineer plans to concentrate on research, exploring new areas and applying untried methods, an advanced chemical engineering degree is probably needed.

Still another type of job appeals to many chemical engineers. This is technical sales. The material that is produced in a plant must be sold. The salesman needs extensive technical training because technical people are the customers.
All chemical engineering jobs—plant operations, research and development, and technical sales—may lead into management or executive positions if the chemical engineer is interested in the broad aspects of a company’s business.

There are, of course, major fields besides industry that need chemical engineers. College teaching for instance, is offering more and more to the engineer, particularly if the person is research-minded. Many college teachers are, in addition, consultants to industry, and the government too is constantly improving the opportunities for chemical engineers in its service. Private research institutes call for chemical engineers. A chemical engineer may choose to work in practically any field.

The curriculum in chemical engineering at the University of Oklahoma is planned to prepare students for the design, construction, and operation of industries in which materials undergo chemical and physical change. Graduates are prepared to accept a job in chemical engineering practice or to continue studies in graduate school.

Since the chemical engineer must be acquainted with so many diversified subjects, the education at the University is necessarily broad. Students receive solid foundations in mathematics, physics, chemistry, and in engineering courses which will prepare them to apply effectively these fundamental principles to the solution of engineering problems. Because computers play a vital role in the solution of many chemical engineering problems, students use modern computational tools and are required to use these tools in their coursework. In addition, there is increasing emphasis on electives in the life sciences and humanistic-social studies. Because of this broad educational background, the engineer is better prepared to accept leadership in the community, as well as in the company, in a management capacity.

Laboratory Facilities

Laboratories for chemical engineering are housed in a complex of over 24,000 square feet in the Sarkeys Energy Center. Facilities include a unit operations laboratory, separations and purification laboratories, polymers laboratories, small angle x-ray scattering laboratory, catalysis laboratories, thin films laboratory, biotechnology and biomedical laboratories, surfactants laboratories, and other graduate research project laboratories. Areas of research emphasis include novel separation processes, remediation of polluted soil and water, process systems engineering, bone and vascular tissue engineering, rheology of blood, statistical mechanics, polymer fibers processing and polymer characterization, biotechnology and biomedical engineering, advanced design, catalysis, electrochemistry, surface modification using ultrathin films, carbon nanotube production, and natural gas utilization.

Undergraduate Study

Courses designated as Core I, II, III, or IV are elements of the University-wide General Education curriculum. All students are required to complete a minimum of 40 semester hours of General Education requirements to complete their curriculum. Each core area is listed with its specific components. Courses must be chosen from the General Education approved course list. Courses graded S/U or P/NP will not apply.

CURRICULUM IN CHEMICAL ENGINEERING

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 131 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm](http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm).

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 72 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.
4. Humanities: 12 hours. History 1433 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 30 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
7. Chemical Engineering courses: 3 hours. CHE 2033.

UPPER DIVISION REQUIREMENTS

The upper division (3000- and 4000-level courses) requirements of 59 hours are to be met as follows:

1. Core engineering: 3 hours. Engineering 3723.
3. Chemical Engineering courses: 28 hours. CHE 3113, 3123, 3473, 3333, 3432, 4253, 4262, 4473, 4153, 4273.
4. Technical elective: 6 hours. (To be selected from a list available in the CHE Office.)
5. Technical Writing: 3 hours. ENGL 3153.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

Pre-medical Elective Pattern

The pre-medical elective sequence is designed so that the student is prepared to enter schools of medicine, dentistry or osteopathic medicine as early as the end of the junior year. Most students who pursue a medical career complete the chemical engineering degree. If the student elects not to enter medical school, a normal chemical engineering degree is obtained; if the student elects to enter medical school, a normal chemical engineering degree is obtained, so there is no disadvantage of being in the program. Zoology courses useful in preparation for the Medical College Admission Test are scheduled in the junior year.

Pre-med students should consult their pre-med adviser as well as their Chemical Engineering adviser for necessary medical school information.

CURRICULUM IN CHEMICAL ENGINEERING–PREMEDICAL ELECTIVE PATTERN

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 136-137 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm](http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm).

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 80-81 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 12 hours. History 1433 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 33-34 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524; ZOO 1114, 1121, 3333 or 2204.
7. Chemical Engineering courses: 3 hours. CHE 2033.

*Six of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).

UPPER DIVISION REQUIREMENTS

The upper division (3000 and 4000 level courses) requirements of 56 hours are to be met as follows:

1. Core engineering: 3 hours. Engineering 3723.
3. Chemical Engineering courses: 28 hours. CHE 3113, 3123, 3473, 3333, 3432, 4253, 4262, 4473, 4153, 4273.
4. Technical elective: 3 hours. (To be selected from a list available in the CHE Office.)
5. Technical Writing: 3 hours. ENGL 3153.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

Biotechnology Elective Pattern
The biotechnology elective sequence is designed to prepare the student for work on the engineering of biological systems and systems in which biochemicals are processed. It includes courses in general biology, microbiology, biochemistry, and biochemical engineering. The elective sequence requires eight additional credit hours over the basic chemical engineering curriculum.

CURRICULUM IN CHEMICAL ENGINEERING – BIOTECHNOLOGY PATTERN
(Accredited by the Accreditation Board for Engineering and Technology.)
This program requires a minimum of 136 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

LOWER DIVISION REQUIREMENTS
The lower-division (1000- and 2000-level courses) requirements of 77 hours are to be met as follows:
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 35 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524; MBIO 2815* (see below).
7. Chemical Engineering courses: 3 hours. CHE 2033.

UPPER DIVISION REQUIREMENTS
The upper division (3000- and 4000-level courses) requirements of 92 hours are to be met as follows:
1. Core engineering: 3 hours. Engineering 3723.
3. Chemical Engineering courses: 31 hours. CHE 3113, 3123, 3473, 3333, 3432, 4253, 4262, 4473, 4153, 4273, 5243.
4. Technical Writing: 3 hours. ENGL 3153.
*MBIO 3813 and 3812 may be taken in place of MBIO 2815.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

Graduate Study
Any student with an undergraduate degree in chemical engineering or its equivalent from an accredited school and a grade point average (GPA) of at least 3.00 (on a 4.00 scale) during the last 60 hours of undergraduate coursework may be admitted as a student in full standing.

Master of Science
Coursework requirements for the Master of Science degree are:
Three required graduate-level chemical engineering courses:
- Two graduate-level chemical engineering electives............. 6 hrs.
Two graduate-level science, math, or engineering electives .... 6 hrs.
Seminar (CHE 5971)................................................................. 3-4 hrs.
M.S. Thesis .............................................................................. 6 hrs.
TOTAL ..................................................................................... 30-31 hrs.

A Master’s Examination and an M.S. thesis are required for the M.S. degree. The Master’s Examination is a written literature survey and research plan on the student’s thesis research.

Doctor of Philosophy
The Ph.D. in chemical engineering requires nine hours of coursework beyond the M.S. degree requirements. These additional hours are selected from graduate-level engineering, science, or math electives in connection with the student’s research supervisor. Ninety post-baccalaureate hours are required for the Ph.D. which include research and coursework credits. It is possible for a good student to complete the requirements for the Ph.D. in a period of four years.

A student working towards a Ph.D. degree must pass a Qualifying Examination and a General Examination before being admitted as a candidate for this degree. The Qualifying Examination consists of written examinations in:
1. Thermodynamics,
2. Transport phenomena, and

The General Examination is a written literature review and analysis, research plan, discussion of preliminary research results, and development of new research ideas on the student’s Ph.D. dissertation research.

Curriculum for M.S./CH.E. Degree for Non-B.S./CH.E. Students
This curriculum has been designed to allow a student holding a Bachelor of Science degree in a field such as chemistry, physics, or mechanical engineering to complete the requirements for the Master of Science degree in chemical engineering over a period of approximately three years. The student will begin research during the first semester in the program. It is assumed that the student entering this program has completed the usual complement of chemistry, mathematics, and physics courses. This includes physical chemistry, organic chemistry and calculus. Any deficiencies in these areas will have to be included in the curriculum. A thesis is required.

If a student can demonstrate that he/she has already had courses covering some of the material in this curriculum, the student may use these courses as credit toward the M.S. degree. The only restrictions, imposed by the Graduate College are that no more than eight hours of graduate courses may be transferred, and that the courses have not counted toward an undergraduate degree. The graduate and undergraduate program directors will meet with each new student during registration to review his/her transcript, and determine if any modifications to the basic curriculum are necessary.

Courses required for this curriculum are outlined below:
CH E 2033 ................................................................. 3 hrs.
CH E 3113 ................................................................. 3 hrs.
CH E 3123 ................................................................. 3 hrs.
CH E 3333 ................................................................. 3 hrs.
CH E 3432 ................................................................. 2 hrs.
CH E 3473 ................................................................. 3 hrs.
CH E 4153 ................................................................. 3 hrs.
CH E 4253 ................................................................. 3 hrs.
CH E 4473 ................................................................. 3 hrs.
CH E 5183 ................................................................. 3 hrs.
CH E 5843 ................................................................. 3 hrs.
CH E 5971 ................................................................. 3-4 hrs.
CH E 5980 ................................................................. 2 hrs.
School of Civil Engineering and Environmental Science

Robert C. Knox, Director
Gerald A. Miller, Graduate Liaison

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Faculty Roster

Professors Abouseilman, Knox, Neo, Mish, Sabatini, Vieux, Zaman;
Associate Professors Kolar G. Miller, Muraleetharan, Nair, Nanny, D. I. Nelson, Strevert; Assistant Professors Butler, Kibbe, Pei; Emeritus Professor Laguros.

Degrees Offered

• Bachelor of Science in Civil Engineering
• Bachelor of Science in Environmental Engineering
• Bachelor of Science in Environmental Science
• Master of Science (Civil Engineering and Environmental Engineering)
• Master of Environmental Science
• Doctor of Philosophy

General Information

Civil engineers are responsible for the design and construction of buildings, highways, landfills, pollution and contaminant control systems, water resources systems, and such public works as water and sewage treatment systems. They often are responsible for planning, managing, operating and maintaining these facilities. Thus, the civil engineer is a multifaceted professional. Structural engineers play an important role in the design of bridges, buildings and other engineered systems. Geotechnical engineers have traditionally addressed the behavior of soils in regard to the interaction between soil and structures, such as a foundation for a building. Civil engineers develop the dams and other water control facilities to meet societal needs for flood control, irrigation, power generation and drinking water supply. Tulsa, Oklahoma, is an ocean port because of the McClellan-Kerr Arkansas River Navigation System of dams, locks and dredged riverways, designed and built by civil engineers. Some civil engineers eventually establish their own consulting or construction firms, while others are employed by Federal, state and local governments. Many civil engineers are employed by private industry as designers or consultants.

Environmental engineers promote harmony between human development and the environment. The availability of abundant supplies of clean water is vital to a high standard of living—environmental engineers identify and develop such resources. Once used, systems must be designed to treat the resulting wastewater before discharging it into the environment. In a more general sense, environmental engineers design systems to protect the environment from the discharge of solid, liquid and gaseous wastes. At times the environmental engineer is called upon to design systems for remediating contaminated sites (e.g., Superfund sites) in such a way that preserves the environment and protects human life. In a more proactive way environmental engineers seek to minimize waste generation and reduce the potential for environmental and human exposure to these wastes. Geotechnical engineers are involved with geotechnical aspects of many different environmental projects, such as designing and constructing clay liners for landfills. This trend has spawned a new specialty area, geoenvironmental engineering.

Coursework requirements for the M.S. degree in Chemical Engineering—Bioengineering Emphasis

Requirements for the M.S. degree in Chemical Engineering—Bioengineering Emphasis include:

- Three required graduate-level chemical engineering courses:
  - Thermodynamics, Rate Operations, and Kinetics ..........9 hours
  - Two graduate-level bioengineering electives .................6 hours
  - Seminar (1 hour/semester) ...........................................3-4 hours
  - M.S. Thesis ..............................................................6 hours
  - TOTAL .................................................................30-31 hours

Coursework requirements for the Ph.D. degree in Chemical Engineering—Bioengineering Emphasis include:

- Three required graduate-level chemical engineering courses:
  - Thermodynamics, Rate Operations, and Kinetics ..........9 hours
  - Three graduate-level bioengineering electives ..............9 hours
  - Four graduate-level math, life science or engineering electives ......................................................12 hours
  - Seminar (1 hour/semester) ...........................................7-8 hours
  - Ph.D. dissertation .....................................................53 hours
  - TOTAL .................................................................90-91 hours

Curriculum for Chemical Engineering—Bioengineering Emphasis

The principal objective of the M.S. and Ph.D. graduate degree Options in Bioengineering is to provide a focused educational program in chemical engineering for students seeking careers in industry, medicine, business and other fields related to biotechnology. Bioengineering is the use of engineering principles of analysis and design, and technologies to solve problems in medicine and biology. The goal of bioengineering research is to understand living systems and develop new and improved devices and products for medicine and biology.

Students interested in bioengineering should consider the Bioengineering degree programs offered through the Program in Bioengineering/OUBC as well as the options in traditional areas of engineering. The more intense study of the OUBC degrees gives a greater range of employment prospects within bioengineering while the choice of pursuing the bioengineering option within chemical engineering can provide opportunities in other industrial sectors (e.g., the petrochemical industry) as well. These complementary programs allow the individual with an interest in bioengineering to follow a curriculum best suited to his/her needs.

Requirements for Master of Science—Bioengineering Emphasis

Requirements for each student include a set of core courses and electives in chemical engineering, science, mathematics and bioengineering. Each student must also do a thesis and orally defend it in accordance with the policies of the School of Chemical Engineering and Materials Science (CEMS) and the Graduate College. The M.S. degree program requires 30 semester hours and can normally be completed in two years.

Coursework requirements for the M.S. degree in Chemical Engineering—Bioengineering Emphasis:

- Three required graduate-level chemical engineering courses:
  - Thermodynamics, Rate Operations, and Kinetics ..........9 hours
  - Two graduate-level bioengineering electives .................6 hours
  - Seminar (1 hour/semester) ...........................................6 hours
  - M.S. Thesis ..............................................................6 hours
  - TOTAL .................................................................30-31 hours

Requirements for Doctor of Philosophy—Bioengineering Emphasis

Requirements for each student in the Ph.D.—Bioengineering Emphasis include satisfactory completion of core courses and electives in chemical engineering, science, mathematics and bioengineering, passing qualifying exams and a comprehensive/general examination. The doctoral program requires 90 post-baccalaureate hours. Nine additional hours of graduate-level electives in bioengineering (3 hours), life sciences (3 hours), and mathematics/engineering (3 hours) beyond the M.S. are required. Each student must pass a qualifying exam and a general exam and also complete a dissertation and orally defend it in accordance with the policies of the School of Chemical Engineering and Materials Science (CEMS) and the Graduate College.

Coursework requirements for the Ph.D. degree in Chemical Engineering—Bioengineering Emphasis include:

- Three required graduate-level chemical engineering courses:
  - Thermodynamics, Rate Operations, and Kinetics ..........9 hours
  - Three graduate-level bioengineering electives ..............9 hours
  - Four graduate-level math, life science or engineering electives ......................................................12 hours
  - Seminar (1 hour/semester) ...........................................7-8 hours
  - Ph.D. dissertation .....................................................53 hours
  - TOTAL .................................................................90-91 hours

CH E 6723 .................................................................3 hrs.
MATH 3113 .................................................................3 hrs.
Graduate science, math, or engineering elective .............3 hrs.
50-51 hrs.
Environmental scientists examine the connections and interactions of humankind and the living and nonliving natural environment. They integrate studies of the problems and issues related to contaminant fate and transport, pollution treatment and control, resource use and consumption, environmental conservation, preservation and enhancement, and environmental management. They often interact with regulatory programs, and participate in the development of remediation strategies and programs. Environmental scientists may be employed in various governmental agencies, consulting firms, laboratories, or in many different private industries.

The School of Civil Engineering and Environmental Science (CEES) provides broad based education for civil and environmental engineers and for environmental scientists. For undergraduate engineering majors, the first two years of study concentrate on the fundamentals of mathematics and engineering science, in common with all engineering students. Using this as a foundation, the last two years include required courses in all aspects of civil or environmental engineering practice: soil mechanics, structural analysis and design, environmental engineering, and hydraulics and hydrodynamics. In the senior year professional electives enable development in one of the sub-areas of civil or environmental engineering. Students are encouraged to choose electives in structural, geotechnical, geoenvironmental, environmental, or water resources engineering. The undergraduate environmental science curriculum focuses on the fundamentals of mathematics, chemistry, life sciences (zoology, microbiology, botany) and environmental science for the first three years, with professional and track electives during the senior year. Undergraduate students also take courses in English, political science, history, and humanities. The successful engineer or scientist must be able to communicate ideas and plans with colleagues and supervisors. He or she understands that the professional responsibility of the engineer or scientist is to provide cost-effective technological solutions that meet the growing needs of society.

Special Facilities and Programs

**RESEARCH FACILITIES**

The school has laboratories to support both its teaching and research missions in environmental science, environmental engineering, structures, hydraulics, soil mechanics, and highway materials. The Fears Engineering Laboratory, gaining national recognition as a center of structural and geotechnical engineering research, was constructed in 1979 and is currently under renovation to promote the effective integration of structural engineering with information technology. It has 8,400 square feet of laboratory space, including an 1,800-square-foot reaction floor that can handle 320,000 pounds at any one location and accommodate testing configurations up to 22 feet high.

The Environmental and Ground Water Institute (ECWI), established in 1982, is the focus for the School's nationally recognized research activities in groundwater. ECWI is comprised of three laboratories, Environmental Remediation Laboratory (ERL), Ecosystem Biogeochemistry and Ecology Laboratory (EBEL), and the BioEnvironmental Engineering and Science Laboratory (BEESL). ERL focuses on risk reduction via surfactant-based technologies for aquifer restoration and soil remediation. EBEL focuses on inorganic and organic analyses of natural waters, soil, and sediments. BEESL focuses on improving the environmental quality of air, water and soil by incorporating biotechnology and applied environmental microbiology into natural and engineered biological systems. Several CEES faculty are members of the Institute for Applied Surfactant Research (IASR), focusing on remediation and other environmental applications of surfactant technology. The Geographic Information Systems (GIS) and Modeling Laboratory is a specialized computing facility devoted to scientific visualization and modeling of spatially distributed environmental parameters and processes. The Unsaturated Soil Mechanics Laboratory (USML) offers students state-of-the-art automated testing facilities to examine mechanical behavior of unsaturated soils.

In addition to the facilities provided by Engineering Computing Services, CEES maintains three computer laboratories and a student computing and study facility. The computing infrastructure in the Environmental Modeling/GIS lab was upgraded in Fall 2002. It now consists of a Sun Enterprise 250 server, ten high-end Sun workstations, three high-end Intel (Linux or Windows) workstations, a 16-node parallel cluster, and associated peripherals and software. The lab is housed in a comfortable work environment, with student desks separated from the computer stations. The Geo-Computational Computer Modeling Lab contains eight PCs, a scanner, and two printers. This lab is primarily used by geotechnical graduation students and undergraduate research assistants.

The TEAM AutoCAD Laboratory is used primarily by students completing the capstone course (CE 4903 or ES 4913), although the long-term plan is to allow students to utilize the lab for any of the Sooner City design courses. The lab currently features six Dell L667 workstations, a HP 600 plotter, a HP Designjet 800 color plotter, two HP scanners, and a HP Laserjet printer. Each workstation is equipped with AutoCAD, Eagle Point, and other engineering design software. Furniture (e.g., chairs, computer benches, drawing lay tables), flat files, and hanging files give the lab the appearance of a real world engineering office.

The CEES student computing and study facility is unique in the College of Engineering. The facility includes seven Gateway or Micron workstations hardwired to the campus network. In addition, the room has been equipped with a receiver for the wireless network. Computer stations are located on the periphery of the room with ample tables and chairs in the interior to accommodate students using laptop computers.

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**BACHELOR OF SCIENCE IN CIVIL ENGINEERING**

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 125 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm](http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm)

**LOWER DIVISION REQUIREMENTS**

The lower-division (1000- and 2000-level courses) requirements of 70 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 9 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 30 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2443, 2483; PHYS 2514, 2524.
7. Civil Engineering courses: 13 hours. CE 1111, 1213, 2113, 2153, 2223.
8. Environmental Science course: 3 hours. ES 2313
9. * Three of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).

**UPPER DIVISION REQUIREMENTS**

The upper division (3000- and 4000-level courses) requirements of 55 hours are to be met as follows:

1. Humanities: 3 hours.
2. Math and science: 3 hours. MATH 3113.
3. Civil Engineering Courses: 37 hours. CE 3403, 3213, 3243, 3253, 3334, 3364, 3414, 3663 or 3673, 3884, 4803, 4903.
4. Technical writing: 3 hours. English 3153.
5. Professional electives: 9 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).
BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING

(Accredited by the Accreditation Board for Engineering and Technology.)

The curriculum for the undergraduate program in environmental engineering is similar to that of the civil engineering undergraduate program for the first two years. However, during the last two years, students complete coursework which is more focused on the environmental applications of civil engineering. The technical electives cover the areas of hydrology, water and wastewater treatment, solid and hazardous waste, and environmental science and occupational health.

This program requires a minimum of 125 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester-by-semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 73 hours are to be met as follows:

1. Communication: 6 hours. ENGL 1113 and 1213.
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 9 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 30 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
7. Civil Engineering courses: 13 hours. CE 1111, 1213, 2113, 2153, 2223.

Three of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) must be at the upper-division level (3000-4000).

UPPER DIVISION REQUIREMENTS

The upper-division (3000- and 4000-level courses) requirements of 52 hours are to be met as follows:

1. Humanities: 3 hours.
2. Math and science: 9 hours. MATH 3113; CHEM 3053, 3423.
3. Civil Engineering Courses: 18 hours. CE 3213, 3334, 3364, 3243, 4234.
4. Environmental Science Courses: 13 hours. ES 4114, 4263, 4813, 4913.
5. Technical writing: 3 hours. ENGL 3153.
6. Professional electives: 6 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

Environmental scientists must keep pace with changing environmental concerns and areas of emphasis. In addition, the wide range of environmental management opportunities requires that the environmental scientist be well trained in the fundamental physical and biological sciences. Accordingly, the bachelor’s curriculum is focused on such fundamental training.

This program requires a minimum of 123 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester-by-semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 67 hours are to be met as follows:

1. Communication: 6 hours. ENGL 1113 and 1213.
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 33 hours. BOT 1114 or ZOO 1114; CHEM 1315, 1415; MATH 1823, 2423; MBIO 2815; PHYS 2414 or 2514, 2424 or 2524.
7. Civil Engineering Courses: 4 hours. CE 1111, 1213.

UPPER DIVISION REQUIREMENTS

The upper-division (3000 and 4000 level courses) requirements of 54 hours are to be met as follows:

3. Communications: 3 hours. ENGL 3153.
4. Science: 9 hours. BOT 3453 or ZOO 3403; CHEM 3053, 3153.
5. Social Science: 3 hours. P SC 3233 or ES 4493.
4. Environmental Science Courses: 20 hours. ES 3603, 4114, 4324, 4813, 4863, 4913.
5. Civil Engineering Courses: 4 hours. CE 3334.
6. Environmental Science or Track electives: 15 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

PREARCHITECTURE

This pattern is designed to meet the requirements for a B.S. in Engineering and entrance to the graduate program in architecture. It is intended to enhance the student’s general understanding of society while building basic proficiency in both engineering and architecture. The potential for dual professional registration is one of the major advantages of this program. Successful completion of both the B.S. in Engineering and the Master of Architecture provides the academic preparation necessary to make a candidate eligible to meet full registration requirements in both engineering and architecture. For more information contact the School of Civil Engineering and Environmental Science.

Graduate Study

The School of Civil Engineering and Environmental Science offers master’s and doctoral programs in civil engineering and environmental science. The following paragraphs present only the standard minimum requirements and are no more than guidelines, not intended to exclude consideration of any valid academic objectives. The admission evaluation, the academic plan, and the research studies of each student should represent a unique synthesis of program strengths and resources with the student’s background and aspirations.

Areas of Specialization

Environmental engineering, environmental science, geotechnical engineering, groundwater quality management, structural engineering, water resources and water quality management. Selection of an option should be made as early as possible, but not later than the regular enrollment period for which the student will have accumulated 15 hours of graduate credit. An early decision is strongly encouraged because all options may not be available at all times. A graduate student is admitted into an area of specialization; any subsequent change in the area of specialization is to be petitioned to the School of Civil Engineering and Environmental Science Graduate Studies Committee. Usually a change is permitted if the student is in good graduate standing and meets the entrance criteria of the specialty area.

Prospective students can obtain additional information through the School’s website (http://www.ou.edu/engineering/cees/) or application materials may be requested by writing to the School or contacting the graduate programs assistant by e-mail (ewilliams@ou.edu).
Financial Assistance

Applications for financial assistance should be directed to the School of Civil Engineering and Environmental Science. Research assistants typically write their thesis or dissertation on the subject for which financial support is received. Teaching assistants often teach laboratory sections and/or grade papers.

Instructors' positions are occasionally available for advanced graduate students, particularly those interested in a university teaching career. Graduate students whose native language is not English must pass an English proficiency exam before being allowed positions as instructors.

Accelerated Dual Degree B.S./M.S.

The School of Civil Engineering and Environmental Science offers an Accelerated Dual Degree (B.S./M.S.) program to qualified undergraduate students. The program allows students to pursue a graduate degree in conjunction with the undergraduate degree requirements. Students accepted into the program can use two professional elective courses (six credit hours) to simultaneously satisfy the requirements of both the B.S. and M.S. degrees. With proper planning, the Accelerated BS/MS Program allows students to complete their MS Thesis or non-thesis degree requirements in less time than is possible in the traditional program. Students are encouraged to apply two semesters prior to graduation and must have a GPA of 3.2 or better in their undergraduate curriculum. The program is not available to transfer students beyond junior standing. Final acceptance to the graduate program is subject to approval of the CEES Graduate Studies Committee and Dean of the Graduate College.

Master of Science (Civil Engineering or Environmental Engineering)

For admission to an area of specialization leading to the Master of Science degree in Civil or Environmental Engineering, the student must meet the general requirements of the Graduate College and must have previously fulfilled the requirements equivalent to the Bachelor of Science in Civil or Environmental Engineering. In addition, the student must have taken the Graduate Record Examination. Undergraduate background deficiencies will be determined by the School’s Graduate Studies Committee and must be satisfied before the student is granted full admission to the Graduate College. All students admitted must have a combined score of 1,400 points in the verbal, quantitative, and analytical portions of this examination. Typically, applicants who are offered financial assistantships achieve a combined score well above 1,400. International applicants must have a TOEFL score of 550 or higher.

Two options are available within the Master's of Environmental Science degree program: thesis and non-thesis. The thesis option requires the completion of 30 semester credit hours, with at least five hours devoted to thesis research and one hour must be devoted to a course on Technical Communications. The non-thesis option requires the completion of 32 semester credit hours, of which two hours must be devoted to the completion of a special project course (ES 5010) and one hour must be devoted to a course on Technical Communications. Both options include a final defense or examination and have a minimum residency requirement of one academic year.

At least 17 credit hours of 5000-/6000-level environmental science courses that have been approved by the student's adviser are required. No more than five of the total credit hours, may be S/U graded. Additional courses to complete the 32 credit-hour requirement can be chosen from other fields of engineering, sciences, mathematics, business or the arts.

Doctor of Philosophy

The Doctor of Philosophy degree program is concerned with the expansion of professional knowledge in the fundamental concepts of civil engineering or environmental science. Admission to the Ph.D. program requires a master's degree with a high scholastic standing. All students admitted must have a combined score of 1,400 points in the verbal, quantitative, and analytical portions of this examination. Typically, applicants who are offered financial assistantships achieve a combined score well above 1,400. International applicants must have a TOEFL score of 550 or higher.

As part of the Ph.D. degree, the student is expected to produce a research dissertation of professional significance that could be the basis of one or more papers published in refereed journals. Ninety semester hours of graduate-level coursework beyond a B.S. degree are required plus a qualifying examination, a general examination, proficiency in a research skill and an acceptable dissertation. The graduate Ph.D. is prepared for a career in teaching, research and consulting.

School of Computer Science

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EL Building, Room 144
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Faculty Roster

Professors Antonio, Atiquzzaman, Dhall, Gruenwald, C. Kim, Lakshminravan, Page, Radhakrishnan, Thulasiraman; Associate Professor Trytten; Assistant Professors Cheng, Dong, Hougen; Adjunct Professors Miller, Ray; Visiting Assistant Professor Neeman.
Degrees Offered

- Bachelor of Science in Computer Science
- Master of Science
- Doctor of Philosophy

General Information

Computer scientists design and build computer systems for technical applications such as intelligent robotic systems, computer graphics and graphical interfaces, modeling and simulation, high performance computing, information storage and retrieval, network communications, network security, speech recognition, and automated controls. Computer scientists also build software tools to facilitate the use of computing systems, tools such as word processors, spreadsheets, numerical function libraries, programming language translators, operating systems, and database management systems.

Computer scientists involved in research invent and analyze formal notations for describing computations, algorithms effective for specific applications, schemes for data storage and retrieval, and methods for managing the complexity of large bodies of software. They study the limits of computation, and they apply computing theories to practical problems.

Computer manufacturers and software companies employ computer scientists to design tools to assist in software development. Such systems include compilers, network software, graphical interface generators, database access systems, and resource managers. In addition, many other industries employ computer scientists to help apply computing technology in applications such as the design of automobile and aerospace components, analysis of chemical processes, economic and financial modeling, pharmaceuticals research, earth resource exploration, weather modeling and intelligent robotics.

The use of computer technology continues to expand, and employment opportunities for computer scientists seem likely to follow this pattern of growth. The curriculum provides students with an opportunity to acquire the comprehensive education necessary to build a successful career in computer science.

Programs for Academic Excellence

The University’s Honors Program affords opportunities for intellectual and professional development under the tutelage of professors selected by the students. Computer Science offers honors courses on a periodic basis.

Qualified students interested in participating in ongoing research programs may do so through special project courses, summer employment on a research grant, or part-time employment during the academic year. Programs such as the “Research Experience for Undergraduates,” sponsored by the National Science Foundation, allow students to become involved in the newest areas of science and technology.

Students may participate in many professional activities and organizations that include student chapters of the Association of Computing Machinery and the student chapter of the Institute of Electrical and Electronic Engineers Computer Society. Each year students are selected to participate in regional and international professional programming contests.

Students declaring a computer science major are allowed to enroll in upper-division courses in their major only after they have successfully completed the requisite courses—ENGL 1113, 1213; CHEM 1315, 1415; MATH 2443; PHYS 2514; and CS 2413, 2613—all of their prerequisites (C S 1323, 1813, 2334), and obtained an overall and OU gpa of 2.80 or higher. In addition to the requirements above, transfer students must successfully complete 12 hours of required coursework at OU with a gpa of 2.80 or higher to continue to be allowed to enroll in upper-division courses in computer sciences beyond their first semester at OU.

RESEARCH ACTIVITIES

The faculty includes internationally recognized experts in many aspects of computer science. They are active in professional research and practice, have published major texts, and have won awards from professional societies for both teaching and research.

Faculty research interests include parallel and distributed computing, telecommunication and computer networks, interconnection networks, high performance computing, computer graphics, database systems, functional programming, computational graph theory, and discrete optimization, intelligent systems, robotics, molecular computing, cryptography, CS education, software engineering, and theoretical computer science.

Computing Facilities

The School of Computer Science maintains several research laboratories. In addition, the School operates an educational laboratory equipped with high-performance workstations and a number of PCs. The School also maintains a high-performance cluster for education and research in distributed computing, networking, and operating systems. Additional computing facilities are available to students at many locations on campus. All students have access to the Internet, and electronic mail services.

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Undergraduate Study

CURRICULUM IN COMPUTER SCIENCE

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 123 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engindx/engindx.htm.

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 72 hours are to be met as follows:

1. Communication: 9 hours. English 1113 and 1213, and COMM 1113, or 2113, or 2213, or 2613.
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 26 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2433, 2443; PHYS 2514.
6. Engineering Course: 3 hours. ECE 2213.
7. Computer Science courses: 16 hours. CS 1323, 1813, 2334, 2413, 2613.
   * Three of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) must be at the upper-division level (3000-4000).

UPPER DIVISION REQUIREMENTS

The upper division (3000- and 4000-level courses) requirements of 51 hours are to be met as follows:

1. Math, Science and Engineering: 12 hours. MATH 3113, 3333, 4743 or 4753 or ENGR 3293, MATH 4073 or ENGR 3723.
2. Computer Science Courses: 21 hours. CS 3053, 3113, 3823, 4263, 4313, 4413, 4273.
3. Approved CS electives: 9 hours.
4. Technical Writing: 3 hours. ENGL 3153 or BC 2813.
5. General Electives: 6 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).
Graduate Study

Areas of Specialization
Current research activities in computer science span a variety of areas of specialization in the respective disciplines as well as a variety of interdisciplinary subjects. Research activities include parallel and distributed computing, telecommunication networks, interconnection networks, computer graphics, database systems, functional programming, computational graph theory and discrete optimization, intelligent systems, robotics, cryptography, molecular computing, software engineering, and theoretical computer science.

Support
Financial assistance to qualified graduate students is available from the School of Computer Science and from other sources. The School awards scholarships, graduate teaching assistantships, and research assistantships. Students desiring financial assistance are encouraged to contact the Graduate Liaison of the School of Computer Science and complete an application. Awards range from $900 to $1,600 per month for half-time teaching or research. Many graduate assistantships include out-of-state tuition waivers.

Requirements for Admission
Students with baccalaureate degrees in other engineering disciplines, physical sciences or mathematics who meet the general requirements of the Graduate College may be conditionally admitted to the Computer Science graduate programs with the stipulation that specified undergraduate courses must be satisfactorily completed to correct deficiencies in their background. GRE General Examination scores are required. Three letters of recommendation that evaluate the candidate’s potential for success as a graduate student are required. Specific questions concerning the programs or admission requirements may be addressed to the Graduate Liaison, School of Computer Science, 200 Felgar, Room 144, Norman, OK 73019. Inquiries should be directed to the program assistant (405) 325-0145.

Accelerated Dual Degree B.S./M.S.
The School of Computer Science offers an accelerated dual degree (B.S./M.S.) program to qualified undergraduate students. The program allows students to pursue a graduate degree in conjunction with the undergraduate degree requirements. Students admitted into this program can use up to four courses (12 credit hours) to simultaneously satisfy the requirements of both the B.S. and M.S. degrees. Students generally apply for the program two or three semesters before completion of the B.S. degree, and minimal requirements for this program include a 3.5 GPA at the time of application. In addition to a dual degree program in which both degrees are in Computer Science, the School of Computer Science in cooperation with the School of Electrical and Computer Engineering offers a dual degree program in which the B.S. degree is in computer engineering and the M.S. degree is in computer science.

Master of Science Degree
A student can pursue either a thesis program or a nonthesis program. In the thesis program, a student is required to complete 30 hours of C S graduate-level courses (including up to six hours of thesis work). In the nonthesis program, the student is required to complete 33 hours of C S graduate-level courses. For either plan, no more than 12 hours of the graduate work can be at the 4000-level (with a maximum of nine hours being in CS). Up to six hours of graduate credit may be in courses from other departments, provided that the courses have been previously approved by the graduate adviser.

Students in the thesis option are required to write a thesis, and successfully defend it before an examination committee. The nonthesis option students are required to pass a final oral comprehensive examination administered by a committee. Students should consult the C S Graduate Handbook for specific degree requirements.

Doctor of Philosophy Degree
Requirements for the Ph.D. degree are set by the student’s doctoral committee in conformance with the current rules of the Graduate College. A qualifying examination is required of all students. The intent of the examination is to determine whether the student is qualified to undertake a doctoral program and, further, to reveal deficiencies that may exist in his/her academic preparation for the doctoral program. In addition, every student is required to take a general examination in his/her major field of study and the related areas. Doctoral students perform research in an area of interest and write a dissertation. Students should consult the C S Graduate Handbook for specific degree requirements.

School of Electrical and Computer Engineering

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Faculty Roster
Professors Cheung, Crain, Cruz, V. DeBrunner, El-Ibiary, Fagan, F. Lee, S. C. Lee, Liu, McCann, Runolfsdottir, Verma; Associate Professors Commuri, L. DeBrunner, Havlicek, Kartalopoulos, Sluss, Tull, Shi; Assistant Professors, Ibrahim, Yeary, Yoon, Yu; Lecturer LaSpisa; Adjunct Associate Professors Doviak, Zmic; Emeritus Professors Breipohl, Crane, Cronemwett, Kuriger, Zelby; and participating faculty from other departments.

Degrees Offered
• Bachelor of Science in Computer Engineering
• Bachelor of Science in Electrical Engineering
• Master of Science (Electrical Engineering)
• Master of Science in Telecommunications Systems
• Doctor of Philosophy (Electrical Engineering)

Academic Objectives
The mission of the School of Electrical and Computer Engineering is to provide a high-quality educational experience for undergraduate and graduate students. Objectives to support this are to offer innovative curricula which prepare the students for successful careers, to broaden the learning experience through the use of technology in the classroom, to provide perspective to knowledge by integrating faculty research into the classroom, and to relate knowledge to contemporary problems with Laboratory experiences. The products of this experience are engineers who are able to think creatively, to advance their knowledge of technology, and to contribute to the creation of economic growth.

General Information
The School of Electrical and Computer Engineering (ECE) was renamed in June of 1996. This change accompanied the introduction of the first degree program in Computer Engineering in the state of Oklahoma. This change continues a tradition of technological leadership demonstrated by the
School since its inception in 1906 at the University of Oklahoma. Historical highlights of the School include:

1906: Moved from Applied Science to College of Engineering;
1972: Computer Science combined into the School;
1992: Electrical Engineering and Computer Science became separate Schools within the College of Engineering; and
1996: Curriculum reorganized to support both Electrical and Computer Engineering degrees.

The faculty of the School of Electrical and Computer Engineering (ECE) is committed to excellence in teaching, quality research in selected areas of leading edge technology, and the professional development of students. Having Electrical Engineering and Computer Engineering in a single School offers the student an exciting combination of technologies with which to meet the design problems of the twenty-first century and an opportunity to develop hands-on skills at the device and system levels. Each degree is based on class offerings from both specialties within ECE, augmented by classes from the School of Computer Science and the Department of Engineering. With this balance, the student is prepared to handle both hardware and software design and analysis topics. Research engineering and career applications include bio-engineering, communications, computer architecture, solid state devices and materials, electric power and radio frequency systems, image and signal processing, instrumentation and control systems, and linear and digital electronics. The School participates with other Colleges to develop advanced degrees specializing in electric energy management, bio-engineering and telecommunications systems technologies.

Programs for Academic Excellence

ECE students who qualify may choose to participate in the University’s Honors College. This program affords unusual opportunities for intellectual and professional development under the tutelage of professors selected by the student.

The School offers the opportunity to become involved in undergraduate research. Students who qualify and are interested in participating in ongoing research programs may do so through special projects. Research and engineering career applications include bio-engineering, communications, computer architecture, solid state devices and materials, electric power and radio frequency systems, and linear and digital electronics. The School participates with other Colleges to develop advanced degrees specializing in electric energy management, bio-engineering and telecommunications systems technologies.

Research Activities

ECE faculty are currently engaged in research in a number of areas of technology critical to advancement of knowledge and commerce in the US and the State of Oklahoma.

- Communications—Adaptive antenna arrays, fixed wireless access, wideband CDMA, wireless telemetry systems, equalization and coding for storage.
- Computer Systems—Advanced computer systems and architecture, fault tolerant systems, networking, embedded systems, programmable logic, hardware description languages.
- Electric Power Systems—Power systems planning and operation; electric power network economics; regulation, privatization and competition in network.
- Electric Vehicle Research—High efficiency motor control systems, battery systems, ergonomic subsystems, solar power and formula racing vehicles.
- Electromagnetics—Computational electromagnetics, phased array antennas, RF medical applications.
- Image Processing—Digital image processing, computer vision, robotics vision, pattern recognition, image interpretation.
- Instrumentation and Control Systems—Multivariable controls design and analysis, robust and fuzzy logic controls, GPS flight control and location systems.
- Signal Processing—Speech and image representations for enhancement, compression, synthesis and recognition systems. Adaptive systems for telecommunications, multimedia, and other systems. Digital filter methods and implementations.
- Telecommunications Systems—Wireless and fiber optic networking technology and systems interoperability.
- Weather Radar—Radar detection and signal processing, adaptive processing, phased arrays, weather detecting waveforms and filtering.

Admission to the Program

ECE is aggressive in the selection of well-rounded students who have demonstrated ability to succeed in academic pursuits. Students declaring Electrical Engineering and Computer Engineering majors will be admitted to the program essentially at the end of their sophomore year. Qualification for entry is established by making application that shows completion of a set of eight required, undergraduate courses in math and sciences and achievement of an overall and OU grade point average of 2.80 or better. Successful applicants may then begin taking upper division (3000- and 4000-level) ECE courses. Transfer students must enter with a 3.0 GPA and successfully pass 12 hours of curriculum required coursework with a 2.80 GPA before full admission to the program. Exact details of this plan are available on their website at www.ou.edu/engineering/ece.

Special Facilities and Programs

Excellent facilities are available for advanced studies in digital systems, power systems, digital signal processing, communication, opto-electronics and solid state electronics. The School operates and maintains a variety of computers, a microprocessor lab, a power systems simulator lab, a digital signal processing lab and other instructional and research laboratories. The facilities are used to provide ‘hands-on’ experience for students. The Electrical Engineering and Computer Engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Biomedical Optics and Electronic Imaging Laboratories

The facilities support advanced research and teaching in medical imaging and biomedical optics. One laboratory is located in Carson Engineering Center that contains state-of-the-art equipment, such as X-ray sources; custom developed CCD and other electronic detector systems, and computing resources. Another laboratory is located in the OU Medical
Center to foster collaboration with clinicians. The equipment includes digital x-ray imaging systems, digital fluorescent imaging systems, optical tables, and lasers.

**Center for Intelligent Systems**
Research lab to support artificial intelligence, expert system, artificial neural networks and soft computing (fuzzy logic and genetic algorithm) investigations. This lab is set up on the North Campus. It is designed to aid research in the areas of controls, sensors, embedded systems, and algorithms. The lab is built on 1,400 sq. ft. using state-of-the-art flexible automation cells donated by Nokia Mobile Phones.

**Communications Laboratory**
A research lab focused on communications signal processing and coding for data transmission and storage.

**Digital Design Laboratories**
An upper-division teaching laboratory and graduate research labs. Developments and experimentation with microprocessor control circuits, memory, and I/O functions extend the understanding of the capabilities and flexibility of this technology. A full range of PC based development platforms and instrumentation is available at each two-person team workstation. Research labs provide workstation support for hardware design languages and programmable logic implementation. This lab features teamwork areas to support capstone industry-sponsored projects.

**Digital Signal Processing Lab**
A research laboratory focused on DSP research issues in multimedia systems and telecommunications: representation, recognition, compression, and enhancement.

**Microelectronics Laboratory**
A research laboratory equipped to grow and characterize narrow band gap semiconductor materials, fabricate mid-infrared optoelectronic devices, and perform real-time in situ measurements of semiconductor manufacturing procedures. Laboratory facilities include molecular beam epitaxy (MBE) and liquid phase epitaxy (LPE) growth systems, Fourier transform infrared (FTIR) and mid-IR laser spectrometers, and a variety of computer controlled cryogenic test stations.

**Telecommunication Laboratory**
A multi-use state-of-the-art teaching laboratory for digital signal and image processing and distributed and parallel computing. Students design and implement multimedia and communications software using multiple DSP microprocessors and PC hosts.

**Scholarships and Financial Aid**

### UNDERGRADUATE STUDENT SUPPORT

The school annually awards many scholarships to students with superior records to help defray the cost of their education. These scholarships are awarded on the basis of merit and need. Awards range from $200 to $2,500 per year. Scholarship applications can be obtained by writing to the Graduate Program Assistant of the School of Electrical and Computer Engineering and complete an application. Financial assistance to qualified graduate students is available from the GRADUATE STUDENT SUPPORT.

### LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 81 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 25 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
6. Core engineering: 11 hours. ENGR 1112, 2113, 2213, 2613.
7. Electrical and Computer Engineering Courses: 8 hours. ECE 2213, 2713, 2772.
8. Computer Science Courses: 13 hours. CS 3223, 3233, 3234, 3243.

* Three of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).

**Undergraduate Study**

Students enrolled in the School of Electrical and Computer Engineering (ECE) are offered a choice of Bachelors of Science degrees in computer engineering (CE) and electrical engineering (EE). Qualified CE students may chose accelerated program tracks leading to an MS EE or MS in Computer Science. Accelerated program students complete their MS degrees with an accumulated 12 credit hours less than normally required to obtain both degrees. Curricula are designed to give a thorough understanding of the physical principals, the design process and the current technology in the student’s chosen discipline. Electrical engineering (EE) conventionally specializes in communications, electric power systems, microwave and rf systems, solid state electronic devices and electronics. Computer engineering (CE) specialties include instrumentation and control systems, digital signal and image processing, and advanced computer architecture. Students are offered professional courses intended to broaden the understanding of the non-technical considerations of a successful engineering design. The objective of the programs is to prepare the student to make valuable job contributions immediately upon graduation.

Electrical and Computer Engineering professions have many facets. An extremely wide range of interesting and satisfying careers is presented to the well-qualified graduate. Some of the fields opened by this background lead to research, management, sales, and manufacturing development. Technical areas include the design, manufacture and utilization of computers, power systems, communications, automatic control systems, electronics, semiconductor devices, quantum electronics, microwave systems, instrumentation, digital signal and image processing, system instrumentation and biomedical electronics.

**CURRICULUM IN COMPUTER ENGINEERING**

(Accredited by the Accreditation Board for Engineering and Technology) This program requires a minimum of 127 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm](http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm)
UPPER DIVISION REQUIREMENTS
Upper division course hours will comprise 46 hours, but elective requirements will vary for those selecting a terminal BS CpE degree or on of the two accelerated BS/MS degree program options.

A. Leading to BS in Computer Engineering
The upper division (3000- and 4000-level courses) requirements of 46 hours are to be met as follows:
2. Math: 3 hours. MATH 3113.
3. Electrical and Computer Engineering courses: 22 hours. ECE 3223, 3772, 3793, 3813, 3872, 4273, 4613, 4773.
4. ECE/CS 3000-4000-level electives: 6 hours selected from a list available in the ECE office.
5. ECE/CS 4000 or higher level electives: 3 hours selected from a list available in the ECE office.
6. Professional electives: 3 hours.

B. Leading to a BS in Computer Engineering and an MS in electrical engineering:
The upper division (3000- and 4000-level courses and graduate G4000-5000-level) course requirements of 46 hours are to be met as follows:
2. Math: 3 hours. MATH 3113.
3. Electrical and Computer Engineering courses: 22 hours. ECE 3223, 3772, 3793, 3813, 3872, 4273, 4613, 4773.
4. ECE/CS G4000-5000-level electives: 3 hours selected from a list available in the ECE office.
5. ECE/CS 5000 or higher level electives: 3 hours selected from a list available in the ECE office.
6. Professional Electives: 3 hours.

C. Leading to a BS in Computer Engineering and an MS in computer science:
The upper division (3000- and 4000-level courses and graduate G4000-5000-level) course requirements of 46 hours are to be met as follows:
2. Math: 3 hours. MATH 3113.
3. Electrical and Computer Engineering courses: 22 hours. ECE 3223, 3772, 3793, 3813, 3872, 4273, 4613, 4773.
4. ECE/CS G4000-5000-level electives: 9 hours selected from a list available in the ECE office.
5. CS 3113, 4623, 4413: 9 hours.
6. CS G4000-5000: 3 hours selected from list in ECE office.
7. *CS 3823 must be taken, but exceeds requirements for BScP.E.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course/s.

CURRICULUM IN ELECTRICAL ENGINEERING
(Accredited by the Accreditation Board for Engineering and Technology)
This program requires a minimum of 127 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engineering/engrindx.htm.

LOWER DIVISION REQUIREMENTS
The lower-division (1000- and 2000-level courses) requirements of 75 hours are to be met as follows:
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 25 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
6. Core engineering: 11 hours. ENGR 1112, 2113, 2213, 2613.
7. Electrical and Computer Engineering Courses: 8 hours. ECE 2213, 2713, 2772.
8. Computer Science Courses: 7 hours. CS 1323, 2334.

UPPER DIVISION REQUIREMENTS
The upper division (3000- and 4000-level courses) requirements of 52 hours are to be met as follows:
3. Electrical and Computer Engineering courses: 31 hours. ECE 3113, 3223, 3323, 3613, 3723, 3772, 3793, 3813, 3872, 4273, 4773.
4. ECE electives: 6 hours selected from a list available in the ECE office.
5. Professional electives: 3 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

Graduate Study
Areas of Specialization
The School of Electrical and Computer Engineering (ECE) offers a Masters and a Ph.D. degree in Electrical Engineering (MSEE and PhDEE). We also offer a Masters Degree in Telecommunications Systems (MS T-Comm), principally from our Tulsa campus. Current research activities in electrical and computer engineering span a variety of areas of specialization as well as a variety of interdisciplinary subjects. The research activities were detailed in earlier paragraphs of this Section.

Requirements for Admission
In addition to meeting the general requirements of the Graduate College, prospective students are expected to have previously earned a B.S. degree or its equivalent in Electrical Engineering or Computer Engineering. Students with baccalaureate degrees in other engineering disciplines, physical sciences or mathematics who meet the Graduate College requirements may be admitted to the graduate program with the stipulation that specified undergraduate courses must be satisfactorily completed to correct deficiencies in their background. GRE General Examination scores are required. Most students accepted have a combined analytical and quantitative score of 1250 or greater. Three letters of recommendation are required which evaluate the candidate’s potential for success as a graduate student.

Specific questions concerning the programs or admission requirements may be addressed to the Graduate Liaison, School of Electrical and Computer Engineering, 202 W. Boyd St., Room 219, Norman, OK 73019-1023. Prospective students are encouraged to visit the School. The School’s Internet web site is http://www.ou.edu/engineering/ece. Inquiries concerning graduate applications should be directed to the graduate secretary (405) 325-4721 or in care of ece@ouwww.ouc.ou.edu.

Master of Science Degree in Electrical Engineering
Master of Science EE degree candidates may choose to pursue the degree with either a thesis or non-thesis option. Either option may be used to enter the Ph.D. program.

The MSEE thesis option in electrical engineering requires a minimum of one year of full-time study. The total number of required credits is 30 semester hours. At least six credit hours must be taken in a school or department other than ECE, and at least three of these credit hours must be in the field of mathematics or physics. Graduate credit will not be allowed for any courses that are numbered below 4000 or are part of the required undergraduate electrical or computer engineering curriculum. A maximum
of 12 hours of 4000-level graduate credit courses are allowed. At least 15 credit hours (not including thesis) must be in electrical and computer engineering courses. Enrollment in six credit hours of ECE 5980, Thesis Research, is required, and the student must write a thesis and successfully defend it before an examining committee.

The MSEE non-thesis option requires a minimum of 32 semester hours of coursework, of which a minimum of 16 semester hours must be in ECE courses, subject to limitations specified above. The student of the M.S. non-thesis option must take the M.S. Comprehensive examination required by the Graduate College. The remaining requirements, except for Thesis Research, ECE 5980, are the same as for the thesis option.

A new MSEE concentration in Electrical Energy Production and Risk Management combining electrical engineering and finance, conforms to the non-thesis option. Twelve credit hours must be in electrical energy (power) with nine credit hours in finance courses, eight credit hours in electrical engineering courses, and three credit hours in the field of mathematics or physics. Enrollment in internship hours (which counts toward the electrical energy requirement) is also required and the student must submit a written report upon completion of each internship (a maximum of two internships is allowed).

Students should consult the ECE Graduate Handbook for specific degree requirements.

**Master of Science in Telecommunications Systems**

The MS T-Com degree is a project based program with options in Engineering and in Management. The Engineering option may be used as an entry to the Ph.DEE program.

The MST-Com requires 32 semester credit hours. These include 14 hours of core coursework and a comprehensive project.

**Doctor of Philosophy Degree in Electrical Engineering**

The total number of credits required to complete the Ph.D. is 90 semester hours beyond the B.S. degree. This normally includes 30 credit hours for a doctoral dissertation. Students are allowed to transfer up to 44 credits (in accordance with the Graduate Bulletin) from a master’s degree toward the 90 hours required.

Specific requirements for the Ph.D. are set by each student’s doctoral committee in conformance with the current rules of the Graduate College. A qualifying examination is required of all students.

Successful completion of a General Examination, consisting of both written and oral parts, is required before preparation of the dissertation. The General Exam focuses on the dissertation proposal but may also include examination over other topics the student’s committee deems to be appropriate. The main intent of the exam is to evaluate the student’s total preparation for conducting research and successfully completing a dissertation.

Students should consult the ECE Graduate Handbook for specific degree requirements.

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**Department of Engineering**

Teri Reed Rhoads, Chair of Undergraduate Study

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Norman, OK 73019-1021

Phone: (405) 325-4161

FAX: (405) 325-1366

Thomas L. Landers, Chair of Graduate Study

Carson Engineering Center, Room 107

Norman, OK 73019-1021

Phone: (405) 325-8539

FAX: (405) 325-7508

Internet: [http://www.coe.ou.edu](http://www.coe.ou.edu)

**Faculty Roster**

The general program in engineering is offered under the broad support of the College of Engineering faculty. The faculty’s responsibility for this program is exercised through an Engineering Program Committee that is charged with the day-to-day responsibility for curriculum planning and evaluation, program supervision and student advising. Inquiries regarding the undergraduate curriculum should be addressed to Teri Reed Rhoads, Director of Engineering Education, who serves as chair of the Engineering Program Committee. Inquiries regarding the graduate curriculum should be addressed to Thomas L. Landers, Chair of Graduate Study.

**Degrees Offered**

- Bachelor of Science in Engineering
- Master of Science
- Doctor of Philosophy
- Doctor of Engineering

**Special Facilities and Programs**

Special facilities and laboratories for the College of Engineering include: Aerospace and Mechanical Engineering—the Combustion Laboratory, the Experimental Stress and Structures Laboratory, the Fluid Mechanics Laboratory, the L.A. Comp Subsonic Wind Tunnel, the Nonlinear Mechanics Research Laboratory, and the Radiative Heat Transfer Research Laboratory. Chemical Engineering and Materials Science—the Flame Dynamics Laboratory, the Institute for Applied Surfactant Research, the Mobil Thermodynamics Laboratory, and the Fuels Laboratory. Civil Engineering and Environmental Science—the Bureau of Water and Environmental Resources, and the Fears Structural Engineering Laboratory. Petroleum Engineering—the Carbon Capture and Storage Laboratory, the Mobil Thermodynamics Laboratory, the Petroleum Production Research Institute, and Petrophysics Laboratory. Engineering Dean’s Office—Center for Artificial Intelligence and the Environmental and Ground Water Institute.

Modern computing resources in support of the College of Engineering are provided by the Engineering Computing Services (ECS).
Program in Engineering Physics

Undergraduate Study

The general program in engineering coordinates the offerings within the College of Engineering’s “core” curriculum engineering science courses and several advanced elective courses that either are required or widely elected by students in more than one of the school departmental curricula.

Graduate Study

General Information

The graduate programs in the Department of Engineering provide broad interdisciplinary programs for students who wish to pursue graduate study in preparation for careers in advanced engineering or related science areas. The Doctor of Philosophy engineering program emphasizes research; and the Doctor of Engineering program emphasizes application of engineering and scientific principles to synthesis and design of engineering systems.

The engineering graduate programs are extraordinary in that they are founded upon all faculties and disciplines of engineering and science. This interdisciplinary feature offers advantages over traditional programs. The student is encouraged to develop his/her program of study and research under a specially selected Graduate Advisory Committee which will include those professors best qualified to direct and support his/her activities. This is done by selecting a faculty committee to work directly with the student.

Admission Requirements

A student who is admissible to the Graduate College and who holds a degree of Bachelor of Science in an engineering field conferred by the University of Oklahoma, or an equivalent degree, will be admitted to full-time graduate work in engineering if the student’s academic record is above average. Degree holders from other disciplines will be expected to do makeup work.

Engineering Master of Science

The Master of Science program in engineering allows study in interdisciplinary areas. Each applicant’s course of study is tailored to meet the student’s individual objectives.

Doctoral Programs in Engineering

Two different doctoral programs in engineering are offered, Doctor of Philosophy and Doctor of Engineering. The Doctor of Engineering degree is specifically designed for those students with several years of experience in engineering practice beyond the undergraduate degree who wish to extend the scope of their formal training.

The doctoral programs in Engineering at the University of Oklahoma offer flexibility. Each applicant’s course of study is tailored to meet individual objectives.

DOCTOR OF PHILOSOPHY

The Doctor of Philosophy degree program is concerned with the expansion of professional knowledge in the fundamental concepts of engineering and science. The doctoral student is required to produce a research dissertation of professional significance. Ninety semester hours of graduate-level coursework beyond a B.S. degree are required plus a qualifying examination, a general examination, proficiency in a research skill and an acceptable dissertation. The graduate Ph.D. is prepared for a career in teaching, research and consulting.

DOCTOR OF ENGINEERING

The Doctor of Engineering degree program provides an emphasis on coursework with a dissertation which addresses the application of engineering and scientific concepts. It is not an analytical research degree.

Admission to the D.Engr. program requires a minimum of three years of acceptable engineering experience plus an engineering master’s degree. Ninety semester hours of graduate-level coursework beyond a B.S. degree are required in addition to a qualifying examination, a general examination, proficiency in a research skill and an acceptable dissertation.

Program in Engineering Physics

Michael Santos, Chair
John Furneaux, Graduate Liaison
Nielsen Hall, Room 131
Norman, OK 73019-0225
Phone: (405) 325-3961
FAX: (405) 325-7557
Internet: http://www.nhn.ou.edu/ephys/

Faculty Roster

Professors (of Physics) Doezema, Furneaux, Gutierrez, Skubic; Associate Professors (of Physics) E. Abraham, Johnson, Mason, Murphy, S. Ryan, Santos, Shafer-Ray, Strauss; Assistant Professors (of Physics) Abbott, Bumm, Shaifer; and participating faculty from the College of Engineering units.

Degrees Offered

• Bachelor of Science in Engineering Physics
• Master of Science
• Doctor of Philosophy

General Information

Established in 1924, the program in engineering physics continues to strengthen its reputation and leadership role for other universities. It was the first program of its kind offered in the United States and today more than 50 universities have introduced their own schools of engineering physics.

For over 70 years, excellence and strength in the engineering physics program has been repeatedly reflected in the high quality of the students. The engineering physics students grade point average is among the highest for any program at the University. On the average, over a third of the students who graduate with a B.S. degree in engineering physics do so with distinction or honors. Both undergraduates and graduate students participate actively in research projects at OU and national laboratories.

Programs for Academic Excellence

In conjunction with the Department of Physics and Astronomy, the engineering physics program invites visiting professors, post-doctoral fellows and weekly colloquium speakers to the campus to promote academic excellence. Supported by state moneys and a private endowment, the Department plays host to a number of visiting scientists each year. These persons bring the latest developments in their areas of interest to the attention of our students and faculty, and their visits present opportunities to exchange scientific ideas.

We are actively involved with the Honors College in an effort to offer exceptional students the opportunity to do advanced study.

Special Facilities and Programs

The Department of Physics and Astronomy possesses an excellent scientific library of about 20,000 volumes and more than 150 journal subscriptions. Ancillary library holdings include the world-famous History of Science Collection. A well-equipped and staffed in-house machine shop is provided for use by graduate students.
Excellent computing facilities include the SUN/UNIX Physics computer network and the Natural Sciences Computer Laboratory which is housed in the department. Some faculty and students make use of supercomputers at Los Alamos through the NSF supercomputer network accessible over the Physics network.

The Department has well-equipped laboratories for research in atomic and molecular collisions, laser cooling and trapping, artificially structured materials, nanometer-scale materials characterization, low-temperature condensed matter, and instrumentation in high-energy physics. Some of the research is performed as part of the NSF-sponsored Center for Semiconductor Physics in Nanointerfaces. Research groups also make use of facilities at national laboratories such as CLEO, Fermilab, Los Alamos, and the National High Magnetic Field Laboratory.

The combined curriculum from the College of Engineering and the Department of Physics and Astronomy provides the finest quality program for both undergraduate and graduate students. The interdisciplinary structure allows students access to a wide range of research topics. Current areas of interest include growth and characterization of electronic and optical materials, device fabrication and simulation, laser applications in chemical reaction dynamics, and microelectronic applications in particle physics.

Scholarships and Financial Aid

The department offers a number of J. Clarence Karcher scholarships each year to students majoring in physics, astronomy, or engineering physics. In addition, one or more Roy B. Adams Engineering Physics Scholarships are awarded each year. The scholarships range from $700-$2,000 per academic year and are renewable. This helps the student to be in the mainstream of his/her professional interest and at the same time receive financial assistance throughout the undergraduate years. Applications (consideration deadline March 15 for the following fall) may be obtained from Undergraduate Programs, Department of Physics and Astronomy, Nielsen Hall, Norman, OK 73019-2061.

Teaching and research assistantships are offered on a competitive basis to graduate students. In 2002 the assistantships ranged from $16,000-$21,000 per year. Departmental applications for graduate study and financial assistance may be requested from the Graduate Programs—Physics, Nielsen Hall, Norman, OK 73019-2061.

Undergraduate Study

The undergraduate major requires 126 hours including 40 hours of physics, 33 hours of engineering and 18 hours of mathematics.

The engineering physics program offers an interdisciplinary bachelor’s degree which combines the course offerings and research activities of the Department of Physics and Astronomy and the College of Engineering. The degree is recommended by the College of Engineering faculty. The curriculum includes the basic core of science, mathematics, social sciences and engineering sciences that are common to all engineering degree curricula, a block of prescribed upper-division physics courses, and a planned sequence of advanced courses in engineering, physics and allied areas that fulfills the design/synthesis requirement of an engineering program.

The teaching faculty of the engineering physics program is drawn from the faculties of the College of Engineering and the Department of Physics and Astronomy.

The objectives of the program (detailed at www.nhn.ou.edu/ephys) are to provide:

- an in-depth understanding of physics,
- a fundamental knowledge of the engineering applications of modern physics, and
- communication and team-work skills, and experience in instrumentation and other areas important for practicing engineers.

The goal of these objectives is to enable graduates to pursue and contribute to new fields as they emerge.

An engineering physicist designs, develops and supervises the construction of new equipment, applying the knowledge of engineering and physics to develop new engineering methods and principles. The engineering physicist completes the link between the pure scientist and the engineer by being able to understand the theory of science and to relate it to the practical problems of engineering.

CURRICULUM IN ENGINEERING PHYSICS

(Accredited by the Accreditation Board for Engineering and Technology)

This program requires a minimum of 126 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 68 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 35 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 1205, 1215, 2103, 2303.
6. Core engineering: 9 hours. ENGR 1410, 1420, 2003, 2313 and CS 1513 or 1323.

* Three of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).

UPPER DIVISION REQUIREMENTS

The upper division (3000- and 4000-level courses) requirements of 61 hours are to be met as follows:

1. Core engineering: 9 hours. AME 3153, two engineering electives (6 hrs.).
3. Physics Courses: 22 hours. PHYS 3043, 3053, 3183, 3302 or 3312, 3803, 4153, 4 hours of 4300.
4. Technical elective: 3 hours.
5. Engineering electives: 15 hours in a design sequence.
6. Engineering Physics elective: 3 hours.
7. Physics elective: 3 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

Graduate Study

Areas of Specialization

(Partial list only) growth and characterization of electronic and optical materials, device fabrication and simulation, laser applications in chemical reaction dynamics, laser cooling and trapping, microelectronic applications in particle physics.

Prerequisites for Full Graduate Standing

In addition to meeting the general requirements of the Graduate College, the student should have a Bachelor of Science in Engineering Physics or an equivalent degree with a minimum preparation of 30 hours of physics and 15 hours of engineering.
Master of Science
This degree is offered as either a nontesis program or as a thesis program. The
nontesis program requires satisfactory completion of 32 hours of
graduate study comprising a minimum of 12 hours of physics and 12 hours of
engineering courses. Students must take and pass the physics qualifying
examination. The thesis program requires completion of 30 hours of
graduate credit including a research thesis on some topic of applied
science. Students may count up to four credit hours of thesis research as
part of their program. If the thesis supervisor is from engineering, a
minimum of 12 hours of physics and nine hours of engineering is required;
if the thesis supervisor is from physics, a minimum of nine hours of physics
and 12 hours of engineering is required.

All programs of study must be approved by the engineering physics
cairperson or a duly appointed representative. All students of either
program must include at least one three-credit-hour mathematics course
numbered 4000 or higher. Graduate credit will not be allowed for any
course equivalent to one required in the undergraduate engineering
physics program.

Doctor of Philosophy
Students electing to study for a doctoral degree are referred to the general
requirements of the Graduate College and the College of Engineering.
Each student is assigned an advisory committee who will determine the
specific requirements within the guidelines set by these colleges.

School of Industrial Engineering

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Internet: http://www.coe.ou.edu/ie/

Faculty Roster
Professors Grant, Kumin, Landers, S. Pulat, Raman, Schlegel, Trafalis;
Associate Professors Court, Shehab; Assistant Professors Karabuk, Moses,
Rhoads; Adjunct Professors Beringer, Hartmann, M. Pulat, Swim;
Professor Emeritus Foote, Purswell.

Degrees Offered
• Bachelor of Science in Industrial Engineering
• Bachelor of Science in Industrial Engineering: Information
  Technology Option
• Bachelor of Science in Industrial Engineering:Pre-medicine Option
• Accelerated Bachelor of Science in Industrial Engineering/Master of
  Science (Industrial Engineering)
• Accelerated Bachelor of Science in Industrial Engineering:
  Information Technology/Master of Science (Industrial Engineering)
• Accelerated Bachelor of Science in Industrial Engineering/Master of
  Business Administration
• Master of Science
• Doctor of Philosophy

General Information
Faculty members in the School of Industrial Engineering are internationally
recognized as experts in all aspects of industrial engineering and are active
in professional research and practice. They hold doctorates from Arizona
State, Lehigh, Case Western Reserve, N.C. State, Oklahoma, Purdue, Penn
State, Rensselaer, and Texas Tech. The faculty also possess diverse industrial
experience. Thus, students are assured of an outstanding professional
educational experience that is practical and modern. About 40 percent of
undergraduate students work with faculty on applied and basic research
grants in addition to graduate research assistants.

Students have received numerous awards including the Halliburton Fellowship.
Several faculty members have reached the “Fellow” level of professional
societies. Recently Dr. Raman received the IIE Outstanding Young Engineer
Award. In addition, Drs. Schlegel and Shehab have conducted experiments
involving NASA astronauts on board the space shuttle, Columbia.

Special Facilities and Programs
The School of Industrial Engineering has a Center for the Study for Wireless
Electromagnetic Compatibility (EMC) and laboratories in ergonomics/
human factors, manufacturing, operations research, and expert systems.

THE WIRELESS EMC CENTER
The Wireless EMC Center is the only such research center in the United
States, studying interference issues between wireless communication and
other electronic devices. EMC is a leading organization in the total systems
approach to compatible integration of emerging technologies. The center is
funded by a consortium of industries and the National Science Foundation.
Graduate research assistantships are available for interested students. The
center’s website is http://www.ou.edu/engineering/emc.

ERGONOMICS LABS
The ergonomics laboratories include an environmental chamber, an S&M
5000 metabolic exercise system for O2, CO2, and pulmonary ventilation
measurement, a Quinton treadmill, an ergometer and several PCs for data
acquisition. A micro experimental laboratory (MEL) and MicroSAINT offer
a variety of equipment to enable studies of human physical performance.
Software and facilities are also available for cognitive ergonomics studies
and simulation of human/machine interactions. A new facility for video
analysis laboratory enables studies of human movement is equipped with
Panasonic cameras and VCRs and a video/computer motion measurement
system (PEAKS) using a video-based motion measurement system. The
ergonomics laboratories are:

Information Ergonomics Lab
This lab is used to supports undergraduate and graduate teaching (IE 4833
5833 and5813) and research in cognitive ergonomics. The lab contains
two computer systems to support graduate students in data collection,
analysis, and computer interface development work. Each computer is
equipped with a video camera for distance education and collaboration
research. The lab also contains a video-based data collection system
consisting of two video cameras, two VCRs, an SMTP time code video
collection board, and a television. In addition, a variety of computer-based
cognitive performance and workload assessment software is available for
student use on projects. In the adjoining Purswell Ergonomics Resource
Center is a computer workstations-equipped with software for
demonstrating a number of human information processes.

Environmental Work Physiology Lab
This laboratory supports undergraduate and graduate teaching (IE 4824,
4833 5833, 5813, 5843, and 5823) and research. The lab contains an
environmental chamber that provides control of the physical thermal
environment (temperature and humidity). This chamber is used to simulate
a variety of working conditions for various ergonomics laboratory exercises
and experiments. This lab also houses a variety of basic equipment for the
measurement of physiological variables (heart rate, blood pressure, body
temperature), environmental variables (sound, vibration, light, temperature,
and humidity), metabolic workloads (programmable treadmill and a
programmable cycle ergometer), and psychomotor performance (reaction
time, manual dexterity, eye-hand coordination, and tracking).
Motion Analysis Lab
This lab is used for undergraduate and graduate biomechanics-related teaching (IE 4824, 4833 5833, and 5843) and research. The lab houses a video-based motion analysis system, which consists of 2 S-VHS video cameras (with tripods and lights), a video-mixer board, and the necessary computer system and software to support such data collection and analysis. The Motion Analysis Lab adjoins the Physical Performance Lab through a set of double doors to provide additional space to accommodate the requirements of videotaping human motion.

Physical Performance Lab
The Physical Performance Lab is used for undergraduate and graduate teaching (IE 4824, 4833 5833, 5813, 5823, and 5843) and research. This lab supports anthropometric and human strength measurement as related to industrial ergonomics and product design. The lab contains a computer-based system for collecting various strength measurements as well as the necessary hardware (e.g., strain gauges, analog-to-digital converters, and posture support mechanisms) to aid such data collection. This lab also contains apparatus to enable manual materials-handling studies and a complete anthropometric measurement set. A computer workstation equipped with the Statistical Analysis System (SAS) is also available in this lab for students to use in data analysis.

Work Analysis and Design Lab
Room CEC217 includes a large open area for teaching in IE 2823 and miscellaneous group projects in IE 2823 and 4833. Because of the flexibility, this space is also used during summer months for research. Several pieces of work measurement and ergonomics research apparatus are stored in large wall cabinets.

Physical Performance Lab
This lab houses the research programs that focus on the use of technology in the educational process. The lab includes multiple researcher workstations equipped with computers used in the development of educational materials. There are four subject data collection stations that facilitate a semi-private testing environment. This lab also houses Human Technology Interaction Center, a center designed for multidisciplinary study of issues related to understanding the impact of technology on human performance.

MANUFACTURING LABS
The machining, computer-aided manufacturing (CAM) and precision manufacturing laboratories contain a CNC milling machine, a fully instrumental lathe, advanced optical measuring equipment, a vision system, a tool maker's microscope, an ultrasonic surface roughness measurement apparatus, and two coordinate measuring machines. There are also several robots, advanced computers and microcomputers for computerized data acquisition from machining sensors. The laboratories are:

Machining Lab
This lab is used for undergraduate and graduate teaching (IE 3304, 5303, 5313) and research. Manufacturing process equipment includes a research engine lathe (Webb lathe with 21” swing and 60” distance between centers) for tool life studies, CNC milling machine (Microtech SERVO 7500), three-axis with spindle speeds from 200 - 2000 rpm, closed-loop servos, one-shot lubrication, and original repeatability of ± 0.0002”, coordinate measuring machine (PFX454CM), optical projector, microcomputer-based data acquisition system (including piezoelectric tool force dynamometer (Kistler Model 9257A and Kistler Model 5004 amplifier), high-resolution Omega Model WB-AAI-B data acquisition system for isothermal compensation (cold junction), amplification, linearization, calibration, and A/D conversion, and acoustic emission measurement equipment.

Precision Engineering Lab I
This lab supports undergraduate and graduate teaching (IE 2303, 3304, 5303, and 5313) and research in manufacturing engineering. Equipment includes a complete machine vision system (with analog framgrabber, processing monitors, computer workstation, and vision software), optical measurement accessories (lenses, linear and circular stages, laser light source), tool-maker's microscope (Bausch and Lomb), ultrasonic surface roughness measurement, precision metrology tools, and 1 CAD workstation.

Precision Engineering Lab II
This lab facility supports undergraduate and graduate teaching (IE 2303, 3304, and 5303) and research in manufacturing. Equipment includes a Microbot Teachmover robot arm (six-jointed arm with 6502A microprocessor, gripping force of 31 pounds, and reach of 17.5 inches), mobile robot, contact surface roughness profilometer, oscilloscope, precision metrology tools, and 1 CAD workstation.

OPERATIONS RESEARCH LABS
Simulation Lab
A simulation lab supports various research projects such as passenger-egress modeling and analysis, corrosion forecasting, high-speed rail modeling and stochastic bills of material research.

Systems Modeling and Optimization Lab
Graduate teaching (IE 4623, IE 4653, IE 5643, and IE 5653) and research in this lab utilizes four computer workstations and supporting peripherals. An HP Laserjet IIP laser printer supports the workstations. An extensive library of optimization tools includes Lindo, Lingo, CPLEX, Expert Choice Gino/386, Mathematica, EXSYS Professional, Asymmetrix Toolbox, Microsoft Office and compilers, geographic information and mapping tools, and miscellaneous utilities.

Team Design Lab
Located in CEC 523. Team Environment for Automated/Multi-Media (TEAM) Design Laboratory is used primarily by students completing the capstone Senior Design course (IE 4393), although the long-term plan is to allow students to utilize the lab for any of the courses involved in the coordinated design sequence. The lab currently features four Gateway ES4200 workstations equipped with AutoCAD, an HP 600 plotter, an HP Laserjet printer, and a blueprint machine. Modular furniture (e.g., chairs, computer benches, drawing lay-out tables), flat files, and hanging files give the lab the appearance of a real-world engineering office.

Optimization and Intelligent Systems Lab
The Laboratory of Optimization and Intelligent Systems (LOIS) pursues basic research in optimization, intelligent systems and automated learning methods, including data mining, statistical methodology, and knowledge discovery, driven by applications to problems of societal importance. Applications related to weather prediction, manufacturing, medical prognosis, financial engineering, automatic categorization of gene expression data from DNA microarrays are currently under investigation. The lab is equipped with 1 dual processor workstation and 4 PCs (Pentium). Various optimization and machine learning software tools are also available. The website of the lab is www.lois.ou.edu.

Production Logistics Lab
This laboratory provides high-end computer workstations and commercial software for supply chain planning and optimization: RHYTHM Factory Planner and RHYTHM Supply Chain Strategist (both from i2 Technologies), ILOG CPLEX, and Symantec VisualCafe. These laboratory facilities are used for both educational and research activities. All courses in production systems planning; while in IE 4653 students work with packaged application software for production systems planning; while in IE 6653 students program their own algorithms for supply chain design. Research in production logistic systems modeling and optimization also is conducted in CEC 215B and CEC 216.

Undergraduate Study
Industrial engineers solve complex problems in all types of organized effort, including manufacturing, service, and governmental sectors of the economy. Industrial engineers accomplish this problem-solving through a total systems approach scientific method, engineering design, and integration of new technologies. The science base for industrial engineering includes mathematics and physical science. Industrial engineering is unique among engineering disciplines in that it also applies the life sciences and social
**Curriculum in Industrial Engineering**

**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING**

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 125 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm](http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm).

**LOWER DIVISION REQUIREMENTS**

The lower-division (1000- and 2000-level courses) requirements of 75 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 25 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
   * Six of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).

**UPPER DIVISION REQUIREMENTS**

The upper division (3000- and 4000-level courses) requirements of 50 hours are to be met as follows:
2. Math and science: 3 hours. MATH elective.
3. Industrial Engineering courses: 32 hours. IE 3304, 4333, 4393, 4553, 4563, 4623, 4633, 4663, 4824, 4853.
4. IE electives: 6 hours.
5. IE Technical elective: 3 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

**INFORMATION TECHNOLOGY OPTION**

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 132 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). Students must meet the same curricular and 2.80 grade point average requirements as computer science students prior to taking upper-division computer science courses. For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm](http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm).

**Lower Division Requirements**

The lower-division (1000- and 2000-level courses) requirements of 85 hours are to be met as follows:
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Sciences: 6 hours. Political Science 1113 and three hours of General Education social science electives.
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 25 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
6. Engineering and Computer Science: 30 hours. ENGR 1112, 2113, 2153, 2213, 2313, 2613; CS 1323, 1324, 2413.

**Upper Division Requirements**

The upper division (3000- and 4000-level courses) requirements of 47 hours are to be met as follows:
2. Industrial Engineering: 32 hours. IE 3304, 4333, 4393, 4553, 4563, 4623, 4633, 4663, 4824, 4853.
3. CS electives: 9 hours.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

**PRE-MEDICINE OPTION**

This program requires a minimum of 137 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm](http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm).

**Lower Division Requirements**

The lower-division (1000- and 2000-level courses) requirements of 75 hours are to be met as follows:
2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Science: 6 hours. Political Science 1113 and three hours of General Education social science electives.*
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 25 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
6. Engineering and Computer Science: 30 hours. ENGR 1112, 2113, 2153, 2213, 2313, 2613; CS 1323, 1324, 2413.

* Six of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).*
6. Engineering and computer science: 20 hours. ENGR 1112, 2113, 2153, 2213, 2313, 2613; C S 1323.


* Six of the 12 General Education elective hours (one course each from social science, artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).

**Upper Division Requirements**

The upper division (3000- and 4000-level courses) requirements of 50 hours are to be met as follows:

2. Industrial Engineering courses: 32 hours. IE 3304, 4333, 4393, 4553, 4563, 4623, 4633, 4663, 4824, 4853.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

**B.S. IN INDUSTRIAL ENGINEERING/MASTER OF BUSINESS ADMINISTRATION**

This program requires 157 credit hours with a minimum grade point average of 3.0 (combined and at OU, in the major, curriculum and overall). The students must take GMAT during their junior year and be admitted to the MBA program. For detailed semester by semester curriculum requirements, contact the School of Industrial Engineering.

**ACCELERATED B.S. IN INDUSTRIAL ENGINEERING/MASTER OF SCIENCE**

This program requires a minimum of 143 credit hours with a minimum grade point average of 3.0 (combined and at OU, in the major, curriculum and overall). The program is only for students majoring in Industrial Engineering at the University of Oklahoma. Juniors with a minimum grade point average of 3.25 can apply for the program. For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

**Lower Division Requirements**

The lower-division (1000- and 2000-level courses) requirements of 85 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Sciences: 6 hours. Political Science 1113 and three hours of General Education social science electives. Also, students must make a C in each prerequisite course before progressing to the next course(s).
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 25 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
6. Engineering and Computer Science: 30 hours. ENGR 1112, 2113, 2153, 2213, 2313, 2613; CS 1323, 1813, 2334, 2413.

**Upper Division Requirements**

The upper division (3000- and 4000-level courses) requirements of 47 hours are to be met as follows:

2. Math and science: 3 hours. MATH elective.
3. Industrial Engineering courses: 32 hours. IE 3304, 4333, 4393, 4553, 4563, 4623, 4633, 4663, 4824, 5853.
4. IE electives: 6 hours.
5. IE Technical elective: 3 hours.

**Additional Graduate Level Requirements**

Twelve hours of graduate level electives and six hours of thesis research to be approved by the thesis committee and the graduate liaison.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

**ACCELERATED B.S. IN INDUSTRIAL ENGINEERING: INFORMATION TECHNOLOGY/MASTER OF SCIENCE**

This program requires a minimum of 156 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall) in the undergraduate program and a minimum of 3.0 in the graduate program. Students must meet the same curricular and 2.80 grade point average requirements as computer science students prior to taking upper-division computer science courses. For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

**Lower Division Requirements**

The lower-division (1000- and 2000-level courses) requirements of 85 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)
3. Social Sciences: 6 hours. Political Science 1113 and three hours of General Education social science electives.
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.
5. Science and Math: 25 hours. Chemistry 1315; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524.
6. Engineering and Computer Science: 30 hours. ENGR 1112, 2113, 2153, 2213, 2313, 2613; CS 1323, 1813, 2334, 2413.

**Upper Division Requirements**

The upper division (3000- and 4000-level courses) requirements of 47 hours are to be met as follows:

2. Industrial Engineering: 32 hours. IE 3304, 4333, 4393, 4553, 4563, 4623, 4633, 4663, 4824, 5853.
3. CS electives: 9 hours.

**Additional Graduate Level Requirements**

Eighteen hours of graduate level electives and six hours of thesis research to be approved by the thesis committee and the graduate liaison.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

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**Graduate Study**

**Areas of Specialization**

- **ERGONOMICS/HUMAN FACTORS ENGINEERING**: biomechanics, work physiology, information systems design (displays, process control and computer systems), product design (safety, function, warnings and instructions) and workplace design (safety, health and productivity).
- **OPERATIONS RESEARCH**: mathematical optimization, systems simulation, stochastic processes, computer systems, multiple-criteria decision making, decision-support systems.
- **PRODUCTION, MANUFACTURING, AND LOGISTICS SYSTEMS**: production planning and control, quality and reliability, facilities planning and design, plant layout, manufacturing processes, computer-integrated manufacturing, robotics, automation, metal cutting, CAD for manufacturing, computer vision, material handling, and transportation systems.
\* ENGINEERING MANAGEMENT: project management, engineering economy, decision theory, organization theory, applications of expert systems and artificial intelligence to industrial engineering and management problems.

\* APPLIED PROBABILITY/STATISTICS: multi-state reliability models, reliability estimation and testing, burn-in strategies, quality function deployment (QFD), total quality management (TQM), robust design, product and process optimization using design of experiments.

Prerequisites for Full Graduate Standing

Students with undergraduate degrees in engineering, the physical sciences, mathematics, computer science, statistics, industrial management or psychology are eligible to apply for admission. Graduates of accredited curricula in industrial engineering are usually accepted for advanced study without prerequisite coursework. Graduates of curricula in other fields may be required to take undergraduate courses in industrial engineering and related areas to remove deficiencies in their background.

Master of Science

Master of Science degree requires at least 30 credit hours, including six credit hours for the thesis. For the remaining 24 hours, a student must select at least 15 hours of industrial engineering courses including at least one advanced course from three of the following areas: human factors engineering, production systems, operations research, and probability/statistics. The thesis is to be defended in a final oral examination. Up to nine hours of non-industrial engineering electives, which must be approved by the graduate committee, and which are not required for the industrial engineering undergraduate degree, may be used for the degree. No 3000-level courses and no more than six hours of 4000-level courses with graduate credit can be counted toward the Master of Science degree.

Master of Science (Engineering Management Option)

The Engineering Management program permits greater course diversity in enabling students to learn advanced industrial engineering techniques. This option is restricted to students who (i) have an undergraduate degree in engineering, and (ii) have several years of engineering experience. A student must take a minimum of 36 hours of coursework of which 18 hours must be graduate level coursework in Industrial Engineering. Twelve hours of engineering management core are two courses from: IE 5713, IE 5743, or IE 5673, Accounting 5013, and Finance 5043. At least two courses from two of the four groups of specialty areas in industrial engineering must be taken as electives. The students are also required to take six hours of information technology elective, three hours of organizational systems elective and three hours of graduate elective from an approved list of electives in order to complete the coursework requirements. A final comprehensive examination must be passed for graduation.

Doctor of Philosophy

A qualifying examination will be given to the student in the first year after the student has completed the master’s degree. After the student successfully completes the qualifying examination, an advisory conference will be held prior to enrollment for the following semester. The purpose of this conference is to establish the candidate’s formal plan of study. At least 24 credit hours of coursework must be taken at OU with at least 12 of these credit hours being in 5000-level or above industrial engineering courses. No more than 30 credit hours of doctoral dissertation (6980) are allowed. The doctoral student’s plan of study should include at least one graduate-level course from three of the four following areas: ergonomics/human factors, operations research/simulation, production/manufacturing/logistics, and applied probability/statistics. Following the completion of coursework, the student must successfully pass a comprehensive general examination. Successful completion of the general examination will admit the person to the full doctoral candidacy. More detailed information on the doctoral program may be obtained by writing to the director of the School.

Degrees Offered

- Bachelor of Science in Petroleum Engineering
- Master of Science (Geological Engineering, Natural Gas Engineering and Management, and Petroleum Engineering)
- Doctor of Philosophy (Geological Engineering and Petroleum Engineering)

General Information

The Mewbourne School of Petroleum and Geological Engineering is nationally ranked as one of the best. Petroleum is synonymous with energy. Over 70 percent of the energy used in this country originates from oil or natural gas. Although the overall percentage provided by petroleum is expected to drop, the total amount provided by petroleum sources will increase. The next “energy crisis” may soon occur, and the petroleum industry will be required to meet the international demands for economical sources of fossil mineral fuels. Because of enhanced oil recovery, unconventional natural gas and frontier producing areas will provide a greater fraction of this production, the need for complex technology required to produce such difficult resources will produce a continued demand for qualified engineers.

Petroleum and geological engineering are many-faceted disciplines that are directed toward exploiting natural resources contained in a geological habitat. Graduates from our programs can work in several different areas and at different levels of technical involvement. They may work on specific production-related problems in a technical area or they may work as broad technical problem solvers within their organizations. Between these extremes is the complete spectrum of job possibilities.

Petroleum and geological engineers are required to utilize complex technologies. Exploration and production are not simple, independent processes. Rather, projects are complex and the extreme financial and physical risks must be integrated into the engineering design of specific exploration and production projects to make them succeed. Engineers who analyze and design systems and facilities for current producing systems must be well prepared. The School of Petroleum and Geological Engineering is prepared to produce such engineers.
Special Facilities and Programs

LABORATORY FACILITIES

Laboratories, located in the Sarkeys Energy Center, are well-equipped to give undergraduate and graduate instruction in all phases of petroleum engineering. Specific laboratory items include equipment for the following: core analysis, capillary pressure and relative permeability measurements; fines migration and formation damage control; the testing and treatment of drilling muds, emulsions, and oil field brines; pressure-volume-temperature measurements of gas and oil mixtures under reservoir conditions; units for studying the flow of oil, gas, and water through porous media; electrolytic models; gas analysis, regulation, and metering; electrical properties of cores; high pressure PVT equipment; corrosion rate measurement and enhanced oil recovery techniques such as surfactant flooding, polymer flooding, in-situ combustion and microbial processes. Large-scale equipment includes a system for studying crude oil displacement by steam, bottom hole pressure and temperature instruments, drilling and cementing tools, cement consistometer, subsurface pumps, artificial lift equipment, and models to illustrate various principles of drilling and production.

The University has several thousands of electrical log diagrams and radioactivity logs of oil and gas wells drilled in Oklahoma. One of the largest collections of aerial photographs of geological subjects in existence anywhere is accessible. The industrial research laboratories of the Oklahoma Geological Survey also are utilized by advanced students interested in research connected with the study of a multitude of economic resources.

Special named facilities include the O. Glenn Simpson Production Laboratory, Halliburton Rock Mechanics Laboratory, the Mobil Thermodynamics Research Laboratory, and the Roy Rudichuk Geological Collection.

CURRICULUM IN PETROLEUM ENGINEERING

(Accredited by the Accreditation Board for Engineering and Technology.)

This program requires a minimum of 127 credit hours with a minimum grade point average of 2.0 (combined and at OU, in the major, curriculum and overall). Students take the “Fundamentals of Engineering Exam” given by the Oklahoma State Board of Registration for Professional Engineers and Land Surveyors as part of senior-level course requirement and the University-wide assessment program. For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/engrindx/engrindx.htm.

LOWER DIVISION REQUIREMENTS

The lower-division (1000- and 2000-level courses) requirements of 72 hours are to be met as follows:

2. Foreign Language: 0-10 hours. Two years in high school or two consecutive semesters (6-10 hours) of foreign language. (College level foreign language does not count toward the curricular hours required for the engineering degree.)*
4. Humanities: 12 hours. History 1483 or 1493; one course each of the following General Education fields: Understanding Artistic Forms, Western Civilization and Culture; and Non-Western Culture.*
5. Science and Math: 34 hours. Chemistry 1315, 1415; MATH 1823, 2423, 2433, 2443; PHYS 2514, 2524; GEOL 1114.
6. Core engineering: 12 hours. ENGR 1112, 1001, 2113, 2153, 2213.
8. * Three of the 9 General Education elective hours (one course each from artistic forms, Western civilization, and non-Western culture) at the upper-division level (3000-4000).

UPPER DIVISION REQUIREMENTS

The upper division (3000- and 4000-level courses) requirements of 55 hours are to be met as follows:

2. Math and science: 9 hours. MATH 3113, Geology 3003, Geophysics 3423.
3. Petroleum Engineering courses: 40 hours. PE 3021, 3123, 3213, 3221, 3313, 3413, 3513, 3813, 4223, 4331, 4423, 4521, 4533, 4543, 4553, 4713.

All College of Engineering students are required to make a minimum grade of C in each course presented for the degree. Also, students must make a C in each prerequisite course before progressing to the next course(s).

Areas of Specialization

The graduate program offers specialized training in drilling, well completion and stimulation, rock mechanics, production engineering, petrophysics, formation damage and control, miscible, immiscible and microbial enhanced oil recovery, reservoir engineering, natural gas engineering, coal mining and coal bed methane, geological engineering, oil field management and several other allied areas.

Prerequisites for Full Graduate Standing

Full graduate standing for the Master of Science degree in petroleum or geological engineering will be granted to a student who presents an acceptable bachelor’s degree in petroleum/geological/natural gas engineering and is otherwise qualified. Specific prerequisites for students who have majored in some other field as an undergraduate will vary in accordance with the student’s needs and major interests. General requirements for admission to the Graduate College must be fulfilled. All students are required to submit scores from the Graduate Record Exam (GRE), a statement of purpose, and three letters of recommendation.

Mewbourne School of Petroleum and Geological Engineering

The University of Oklahoma 2003-2006 General Catalog

College of Engineering
Master of Science Degree

PETROLEUM ENGINEERING

Students may pursue a thesis or nonthesis option for the Master of Science degree in petroleum engineering.

The thesis program requires at least 30 credit hours, including four credit hours for the thesis. For the remaining 26 hours, a student must take at least nine credit hours of petroleum engineering courses from PE 5133, 5143, 5243 and 5553; three credit hours of approved applied mathematics courses; two credit hours of either PE 5971 or 5990; and 12 credit hours of approved electives with at least nine credit hours in PGE. The thesis is to be defended in a final oral examination.

The nonthesis program requires at least 36 credit hours. A student must take at least nine credit hours of petroleum engineering courses from PE 5133, 5143, 5243 and 5553; three credit hours of approved applied mathematics courses from MATH 4163, ENGR 5723, PE 5563, AME 5763 or other approved applied mathematics courses; two credit hours of either PE 5971 or 5990; and 22 credit hours of approved electives with at least 15 credit hours in PGE. A final comprehensive examination must be passed for graduation in the nonthesis program. The examination may be either oral, written or both. The maximum number of attempts to pass the comprehensive examination is limited to two.

GEOLOGICAL ENGINEERING

Students may pursue a thesis or nonthesis option for the Master of Science degree in geological engineering.

The thesis program requires at least 30 credit hours, including four credit hours for the thesis. For the remaining 26 credit hours, a student must take at least nine hours of petroleum/geological engineering courses from PE 4803, GE 5143, 5243 and 6263; three credit hours of approved applied mathematics courses; two credit hours of either GE 5971 or 5990; and 12 credit hours of approved electives with at least nine credit hours in PGE. The thesis is to be defended in a final oral examination.

The nonthesis program requires at least 36 credit hours. A student must take at least nine credit hours of petroleum/geological engineering courses from PE 4803, GE 5143, 5243 and 6263; three credit hours of approved applied mathematics courses; two credit hours of either GE 5971 or 5990; and 22 credit hours of approved electives with at least 15 credit hours in PGE. A final comprehensive examination must be passed for graduation in the nonthesis program. The examination may be either oral, written or both. The maximum number of attempts to pass the comprehensive examination is limited to two.

Doctor of Philosophy

Candidates for the Doctor of Philosophy shall satisfy all requirements for the Ph.D. degree in engineering. The degree requires 90 post-baccalaureate credit hours of coursework including the dissertation. Each candidate must meet the general requirements as specified in the bulletin of the Graduate College, as well as all requirements as specified in the general requirements for the master’s degree in Petroleum and Geological Engineering, including the satisfactory passage of the Qualifying and General Examinations.

A student should normally expect to spend the equivalent of three full academic years beyond the master’s degree in study for the doctorate. As a general rule, either his/her bachelor’s degree or master’s degree (or both) will be in petroleum engineering or geological engineering. Applicants who have bachelor and master degrees in other engineering fields may be admitted in the petroleum engineering Ph.D. program on the condition they complete coursework deficiencies in petroleum engineering of up to 24 credit hours. Other coursework deficiencies may be necessary (such as geology), depending on the applicant’s background. Coursework deficiencies will not be part of the Ph.D. program.

At least two-thirds of the post-master’s coursework which is applied toward the Ph.D. degree must be in petroleum and geological engineering if the student is a petroleum engineering student. The majority of courses selected for a Ph.D. in geological engineering should be selected from petroleum and geological engineering. The coursework applied toward the Ph.D. degree must include a minor consisting of a minimum of 12 hours (out of 90 credit hours) of applied mathematics or other natural sciences. Courses of study are individually structured to capitalize upon each student’s background and to meet his/her specific needs and research interests.

Every candidate for the Ph.D. degree in petroleum and geological engineering must satisfactorily complete the Qualifying and General Examinations.

Master of Science in Natural Gas Engineering and Management Degree

Students may pursue a thesis or non-thesis option for the Master of Science in Natural Gas Engineering and Management degree.

The thesis program requires at least 30 hours, including four credit hours of thesis, plus one credit hour PE 5971 graduate seminar. For the remaining 26 hours, a student must take 18 credit hours of required courses PE 5603, 5613 and 5623, Ch E 5643, and FIN 5413 and 5973; and eight credit hours of approved electives. The thesis is to be defended in a final oral examination.

The non-thesis program requires at least 36 hours courses plus one credit hour PE 5971 graduate seminar. A student must take 18 credit hours of required courses PE 5603, 5613 and 5623, Ch E 5643, and FIN 5413 and 5973; and 18 credit hours of approved electives. In addition, a comprehensive project, presentation, and exam during the final semester must be passed for graduation. The maximum number of attempts to pass the comprehensive examination is limited to two.
College of Fine Arts

Fred Jones Art Center, Room 122
Norman, OK 73019-3021
Phone: (405) 325-7370
FAX: (405) 325-1667

Internet: http://www.ou.edu/finearts/

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Administrative Officers
Marvin Lamb, D.M.A., Dean
Mary Jo Watson, Ph.D., Associate Dean
Andrew Phelan, Ph.D., Director, School of Art
Mary Margaret Holt, M.F.A., Director, School of Dance
Tom Orr, M.F.A., Interim Director, School of Drama
Kenneth Fuchs, D.M.A., Director, School of Music
Gregory Kunesh, Ph.D., Chair, A. Max Weitzenhoffer Department of Musical Theatre

General Information
The College of Fine Arts includes the Schools of Art, Dance, Drama, Music, and the A. Max Weitzenhoffer Department of Musical Theatre. Each unit offers degree programs at the undergraduate level. In addition, the schools of Art, Dance, Drama and Music offer graduate degree programs.

GOALS
The following goals have been established by the college as guiding forces in our role as the largest and most comprehensive College of Fine Arts in the state of Oklahoma:

- Provide high quality arts experiences to all;
- Create works of art through exhibit and performance;
- Educate students and the greater community;
- Enrich the lives of all with new, progressive arts forms;
- Develop artistic technology;
- Reach Out artistically and culturally to all the citizens of the state of Oklahoma;
- Nurture cultural diversity;
- Support general education;
- Remember the past;
- Celebrate the present; and
- Shape the future.

History/Mission
The College of Fine Arts, originally organized as the School of Fine Arts in 1902, was the fourth college to be founded at The University of Oklahoma. Today, the college includes the Schools of Art, Dance, Drama and Music, and the A. Max Weitzenhoffer Department of Musical Theatre, and is the largest and most comprehensive fine arts program in the state of Oklahoma. The program has an annual enrollment in excess of 900 fine arts majors and a full-time faculty of more than 100 nationally and internationally recognized educators, artists, performers, scholars, and technicians. More than 400 performances and exhibitions are presented within the College of Fine Arts each year.

The College of Fine Arts, as part of the University of Oklahoma, recognizes the universal language of the arts and the integral role of the arts in the improvement of the human condition within a culturally diverse environment.
The College is committed to excellence and promotion of the arts within the state of Oklahoma and the nation and is dedicated to high professional standards in arts performance, education, technology, scholarship, research, and creative activity.

Scholarship Information
Students who are majors in the College of Fine Arts are encouraged to apply for scholarship support directly to the School of Art, School of Dance, School of Drama, School of Music, and the A. Max Weitzenhoffer Department of Musical Theatre. The individual Schools and department within the College of Fine Arts award scholarships based on specific criteria regarding a student’s major, talent, merit or need. Awards may vary from a few hundred dollars to more than a thousand dollars. On occasion, the College of Fine Arts Dean’s Office grants minimal scholarships to students who have exhausted all other financial resources. Scholarships granted by the dean are based on merit, special financial need, and unusual circumstances. Application deadline for the above scholarships is March 1st for the following academic year. Please contact the dean’s office for applications.

Special Facilities
Facilities at the School of Art include classrooms and studios for foundations, painting, drawing, printmaking, sculpture and ceramics, as well as darkrooms, film and video editing rooms, and computer laboratories. Media and library resources include a slide/media library containing over 150,000 slides; OU’s Bizzell Library, with over 2.6 million volumes, and the College of Fine Arts Library, which houses books and periodicals on art, art history and design as well as on music, dance and musical theatre. The Charles M. Russell Center for the Study of Art of the American West provides an extensive library on that art and a unique opportunity to study with authorities in the field. The school’s Lightwell Gallery displays works by students and visiting artists. The Fred Jones Jr. Museum of Art, adjacent to the School of Art, is one of the finest university art museums in America. The museum sponsors speakers and numerous exhibitions, including the annual School of Art Students’ Exhibition. Construction is under way for a new $14 million, 34,000-square-foot addition located to the west of the Museum’s existing 27,000-square-foot building expected to open in the fall of 2004. To be named in honor of Mary and Howard Lester of San Francisco, the wing will permanently house the “Weitzenhoffer Collection of French Impressionism.” The wing will also include galleries for other selections from the Museum’s permanent collection, an auditorium, an orientation room, a classroom, a museum store, and a new main entrance.

The crown jewel of the $18 million Donald W. Reynolds Performing Arts Center is the renovation and expansion of Holmberg Hall. The 750-seat performance hall will feature a domed ceiling, modern acoustical features and a stage tower. An 18,000-square-foot addition to the west side of Holmberg Hall for the School of Dance also will be built. The Center is scheduled for completion in August 2004.

The Fine Arts Center provides the perfect setting for collaborative efforts in production and theatrical training. In addition to the 600-seat Rupel Jones Theatre and the 200-seat Weitzenhoffer Theatre, the center contains three fully equipped dance studios and one practice studio. Classrooms, make-up room, scene and costume shops, and dressing rooms used by drama, dance, and musical theatre comprise a facility in which our students can work and learn to their fullest potential.

The School of Music is housed in three buildings: Stanley B. Catlett, Sr. Music Center, Holmberg Hall, and Carpenter Hall. Completed in 1998, the 25 million dollar Center contains administrative offices, faculty offices and studios, rehearsal suites, classrooms, MIDI labs, the Grant Fine Arts Library, a recording studio, and three performance halls, including the Paul F. Sharp Concert Hall, Morris R. Pitman Recital Hall, and Grayce B. Kerr Gothic Hall (for organ performance). Holmberg Hall houses faculty offices and the Auditorium, a theatrical stage used by the OU Opera Theater for its productions. Studios for the voice and piano faculty members are currently located in Carpenter Hall.

Undergraduate Study

STUDENT RESPONSIBILITIES
College and faculty advisers are available to assist students in planning their programs of study; however, it is the responsibility of the individual student to make informed decisions to ensure academic success and timely graduation. Therefore, it is critical that students know and understand the following:

- His/her academic standing based on the retention standards of the College of Fine Arts;
- The degree requirements as published by the Office of Academic Bulletins;
- Academic deadlines, as listed on the university academic calendar;
- All rules and regulations which govern enrollment and graduation;
- University policies and procedures;
- When and where to go for assistance and to make use of the many resources provided by the University.

Admission and Retention

FRESMEN
The freshman year at the University of Oklahoma is spent in University College, which is not a degree-recommending college. Students must be formally accepted into a degree program before they may declare a fine arts major. Refer to audition and School of Art Home Test information below. Transfer to the College of Fine Arts from University College is automatic once the following conditions have been met:

- a declared Fine Arts major;
- 24 combined retention hours earned (excluding any remedial credit hours), and
- a combined retention GPA of 2.50.

AUDITION
All dance, drama, music and musical theatre majors must audition and be officially accepted into a degree program before being allowed to enroll for classes. Drama majors who have taken previous acting classes at another institution and who wish to be placed in an acting class beyond the freshman level, must audition for placement.

SCHOOL OF ART HOME TEST
All students seeking entry into the Bachelor of Fine Arts in Art degree programs must successfully complete a Home Test prior to March 1, for admission into the upcoming fall semester. Details about the Home Test can be found on the School of Art website (http://art.ou.edu/). Students must have successfully completed the Home Test and been accepted into the Foundations program before being allowed to enroll for classes. The Foundations courses are sequential in nature and can only be started in the fall semester. All students entering the Foundations program enter the School of Art as an Undecided major.

Admission to an area of specialization (Studio Arts, Media, or Visual Communications), is by portfolio review during the spring semester of the Foundations program.

Students who have taken studio coursework at another institution must meet with a Foundations adviser to determine if courses can be substituted for the Foundations requirements. These students must then go through a portfolio review and be accepted into an area of specialization as outlined above.

READMISSION POLICY
A College of Fine Arts major who has not been enrolled in the college for two consecutive semesters (excluding summer) or more, must reapply to the school/department of his/her major for readmission. This reapplication must include an audition or portfolio/scholarly materials review and submission of support materials as applicable. The student must check with the appropriate school/department for additional information and requirements pertinent to the readmission process.
RETENTION

Students are admissible to the College of Fine Arts in good standing once they have completed 24 hours (excluding any remedial credit hours), have a minimum 2.50 GPA (includes both OU retention and combined retention), and have declared a fine arts major. Students must earn a grade of C or better in each course in the school or department of his/her major.

ACADEMIC PERFORMANCE/PROBATION

Students who do not meet the minimum GPA (OU retention and combined retention) required by the College of Fine Arts will be placed on an individualized Academic Performance/Probation Contract. Students who do not fulfill the requirements of their Academic Performance/Probation Contract within the allotted time, will be dismissed from the College of Fine Arts. Probationary students will be restricted to a maximum of 12 hours per semester. Exceptions will be made only at the discretion of the Dean of the College of Fine Arts based upon the recommendation of the student's director or chair.

DISMISSAL

Students who have been dismissed from the College of Fine Arts will have an enrollment stop placed on their records by the College of Fine Arts and are not allowed to enroll in Fine Arts courses designed and/or designated for majors only. Any advance enrollment will be cancelled. To continue at the University of Oklahoma, the student will need to make an appointment with the Center for Student Advancement. Students who have been dismissed from the College of Fine Arts twice are unlikely to be readmitted to the college.

REVIEW PROCESS IF INELIGIBLE FOR ADMISSION OR RETENTION

The review process is: (a) written petition to the dean; (b) letters of support from the director/faculty of the school or department; and (c) dean accepts or rejects petition. There is no further appeal except to the Provost.

Transfer Students

Transfer students admitted to the College of Fine Arts may pick up a copy of their Transfer Credit Evaluation Document from the Academic Counselor in the dean’s office. Faculty advisers shall be responsible for informing students how transfer credits within their major will apply toward a baccalaureate degree from the College of Fine Arts. A Course Substitution Form must be completed by the student’s faculty adviser for all fine arts specific transfer courses. The academic counselor in the dean's office shall be responsible for informing students of transferability of General Education core requirements. The University’s General Education Transfer Course Evaluation Form will be completed by the academic counselor in the dean’s office for uncredited transfer courses as appropriate.

• In the event that a lower-division transfer course is used as a substitution for an upper-division requirement at the University, a student may be required to complete additional upper-division hours for graduation.
• A minimum of 60 semester hours must be earned in a 4-year college for a baccalaureate degree.

For further regulations regarding transfer students, refer to the opening pages of this catalog.

Enrollment and Grade Information

CREDIT HOUR LOAD

Students may enroll in a maximum of 19 hours of work in one semester. The minimum requirement for full-time status is 12 hours. To enroll in more than 19 hours, permission must be obtained from the dean. Students must have a minimum GPA of 3.0 in order to receive overload permission.

ADVISEMENT

Students registered in the College of Fine Arts must be advised by a faculty adviser in the major school or department prior to each enrollment. An Academic Advisement Form is completed and signed by the adviser during the conference. This completed form is turned in to the Dean’s office who then lifts the students advising flag in the online enrollment system. The student’s faculty advisor or the student’s school/department is responsible for inputting ESP’s (electronic special permissions) into the online system to enable the student to enroll in courses requiring special permission. Once the advising flag has been lifted and all enrollment stops have been cleared, the student may finalize their enrollment schedule in the online system.

Instructions for the online enrollment system (https://enroll.ou.edu) may be obtained from the Dean’s office or the Office of Registration in Buchanan Hall, Room 230.

MATH POLICY

The College of Fine Arts requires that all declared Fine Arts students complete their college level math course within the first four semesters of enrollment at OU. Transfer students or newly declared Fine Arts majors who have not completed their college level math requirement will have two semesters in which to complete the requirement. Students who fail to meet this requirement will be restricted from upper-division fine arts courses except by permission of their Director and the Dean.

CHANGE OF MAJOR

Students wishing to change majors must do so in the College of Fine Arts Dean’s Office by completion of the Change of Major request form. Prior to completing a change of major request in the Dean’s office, the student must meet the admission criteria as outlined in the following pages.

GRADE INFORMATION

A student must have a grade of C or higher in each course in his/her major. Each hour of A, B, C and D carries a grade point value as follows: A = 4, B = 3, C = 2, and D = 1. Grades of I, F and U as well as grades P and S carry no grade point value. They are not figured in the computation of a student’s grade point average except for grades of F.

College of Fine Arts students are required to make a C or better in all courses taken within their respective Schools. When a course to fulfill a general education or free elective has been repeated and the second grade was lower than the first, the higher grade will be used toward fulfilling graduation requirements. For additional information on the impact of repeat coursework on the student’s GPA, the student should consult with the academic counselor in the Dean’s office.

DEAN’S HONOR ROLL

The College of Fine Arts Honor Roll is compiled at the close of each fall and spring semester. It includes students who have completed at least 12 grade point hours and have earned an average of 3.50 or higher for the semester.

PASS/NO PASS OPTION

Students in the College of Fine Arts may present, for graduation, a maximum of 16 elective hours completed under the pass/no pass option. Courses completed under the pass/no pass option may not be used to fulfill the University-Wide General Education requirements, major requirements, or major support requirements.

ADVANCED STANDING

Students who feel they have a sufficient knowledge of the subject matter of a course offered by the University may take an advanced standing examination for undergraduate credit in the course. Please reference the Admissions section of this catalog for further information on the regulations governing advanced standing credit.

The amount of advanced standing credit by examination which may be awarded shall not exceed 21 hours of lower division credit and 10 hours of upper division credit toward the minimum 124 semester credit hours required for graduation. Students who have received a grade other than a W in any course, may not subsequently take the same course by advanced standing.

CORRESPONDENCE

University of Oklahoma regulations pertaining to the acceptance of correspondence from other institutions must be met before such work may be applied toward the degree. The candidate for a degree must meet the
The University of Oklahoma 2003-2006 General Catalog

Graduation
REQUIREMENTS

The responsibility for meeting all graduation requirements lies with the student.

The following requirements must be met in order to graduate with a bachelor’s degree from the College of Fine Arts:

1. Student must have an OU retention and combined retention grade point average of 2.50 or higher.
2. Student must have successfully completed a minimum of 124 semester hours inclusive of general education, major course work, and electives.
3. Student must earn a C or better in each course in his/her major.
4. Student must complete a minimum of 40 hours of upper-division coursework (3000-4000).
5. Student must complete a minimum of 40 hours of general education requirements as outlined by the college and the University.
6. Student must complete one general education course at the upper-division level (3000-4000) outside the student’s major.
7. Student must complete a senior graduation check with the academic counselor in the Fine Arts Dean’s Office in his/her next to last semester.
8. Student must complete an Application for Graduation at the time of their senior graduation check.

GENERAL EDUCATION REQUIREMENTS

Students are required to satisfy the University-wide General Education course requirements as outlined in the General Information section of this catalog. Courses used to satisfy these requirements should be chosen from the University-wide General Education Approved Courses listed in the official Class Schedule each semester.

- The University requires a minimum of 40 hours of General Education coursework.
- In addition to the Senior Capstone Experience, students must take at least one upper-division General Education approved course outside the student’s major.

College of Fine Arts degrees specify particular general education courses be completed for certain core areas. Please refer to your specific degree sheet.

RESIDENCE REQUIREMENTS

Residency is defined as coursework taken through any University of Oklahoma campus.

- Candidates for an undergraduate degree must complete their last 30 hours as resident students in the College of Fine Arts.
- At least 24 hours of upper-division major credit applied toward the degree must be earned in residence as a declared Dance, Music, Musical Theatre, Drama or Art History major. A minimum of 30 hours of upper-division major credit must be earned in residence as a declared Art studio major.
- Capstone courses must be taken in residence.

DEGREES OFFERED

Upon satisfactory completion of the prescribed studies, the candidate will be recommended for the degree of:

- Bachelor of Arts in Art History
- Bachelor of Fine Arts in Art
- Bachelor of Fine Arts in Dance
- Bachelor of Fine Arts in Drama
- Bachelor of Fine Arts (Music Emphasis)
- Bachelor of Fine Arts in Musical Theatre
- Bachelor of Music
- Bachelor of Music Education
- Bachelor of Musical Arts

MINORS

The College of Fine Arts offers its students the option of declaring a minor in art history. The minor in art history is also open to any undergraduate
student enrolled at the University of Oklahoma. Students in the College of Fine Arts may also declare a minor offered by another degree college at the University of Oklahoma subject to the rules and regulations of the college offering the minor. Any student wishing to declare a minor in art history should do so in the College of Fine Arts’ Dean’s Office, Fred Jones Center, Room 122. College of Fine Arts students completing minors offered in other colleges must contact that college to declare the minor and to ensure satisfactory progress toward meeting the requirements for that minor. Requirements for a minor must be completed prior to graduation if a minor is to be recorded on the transcript.

DEGREES WITH DISTINCTION
For a student to be recommended for a degree with distinction, he or she must have completed a minimum of 60 hours in residence at OU, have a combined cumulative GPA of 3.50 and a 3.50 grade average in all OU coursework.

The degree with special distinction, will be conferred on students who have completed a minimum of 60 hours in residence, and have combined cumulative GPA of 3.50 and a 3.90 grade average in all OU coursework. The final semester will be included in the GPA that determines the distinction degree. No student will be granted a degree with distinction or with special distinction who has been subjected to disciplinary action.

CONCURRENT/SECOND DEGREES
Students may work toward the completion of more than one degree.

If a student has graduated and is coming back for a second degree:
• They must have at least 2 semesters in residence.
• They must complete at least 30 additional hours in the college of the second degree. The 30 hours must be in addition to the total number of hours completed by the student for the first degree. The college will determine if excess hours from the first degree can apply to the second degree.
• At least 15 hours of the 30 must be completed at the 3000-4000 level.

If a student is pursuing concurrent degrees:
• The student must be cleared for graduation for both degrees in the same semester.
• The student must file an Application for Graduation for both degrees. The student will receive two diplomas.
• They must have at least 2 semesters in residence.
• The student must complete at least 30 additional hours beyond the degree that requires the least number of hours. The college will determine if excess hours from the first degree can apply to the second degree.
• At least 15 hours of the 30 must be completed at the 3000-4000 level.
• Once a student has been cleared with an undergraduate degree, the rules for a second degree go into effect, even though the student never actually left the university.

DOUBLE MAJOR POLICY
In the School of Music, students may work toward the completion of more than one major. All requirements for each major must be completed including a second capstone. If there are fewer than 30 additional hours, the student will be awarded one diploma for the first major listed, but the transcript will indicate both majors. Residency requirements must also be fulfilled.

TEN-YEAR LIMITATION RULES
The following rules must be met.
1. Please refer to the College of Fine Arts Readmission Policy.
2. A student in the College of Fine Arts may elect to be graduated under the requirements for an undergraduate degree set forth in the catalog or bulletin in effect at the time of his/her first enrollment in the state system provided that he/she completes the work for a degree within a maximum of 10 calendar years from the effective date on the catalog. If the work for a degree covers a period longer than 10 years, the college, in consultation with the student, will determine the catalog to be in effect for that student’s graduation.

3. Students returning to college whose coursework is more than 10 years old, will follow the policy outlined below in addition to the Readmission policy:
• Decisions will be made on a case by case basis at the discretion of the individual Schools.
• Students will not be allowed to complete degree plans that have been deleted (refers to a deletion formally approved by the State Regents).
• Students who wish to use coursework in the area of their specialization that is older than ten years, must petition the School of their major for validation of those courses on a course by course basis after they have been readmitted to a degree plan.
• Students must petition the School of their major to follow an expired degree plan (refers to a degree plan of a particular year that is over ten years old).
• Students who have 20 hours or less remaining under an expired degree plan will receive consideration in being allowed to complete said plan (includes old GPA requirements).
• Students who have more than 20 hours to complete under an expired degree plan, normally must follow the current years’ degree plan and GPA requirements.

School of Art
• Students wishing to be readmitted to the School of Art after a ten year period must schedule a portfolio review.
• At the portfolio review a decision whether to accept the student will be made. Following acceptance, a decision will be made as to which area of specialization the student is admitted, as well as appropriate course placement within the curriculum.
• General COFA policy rules apply beyond this point.

School of Dance
• Students wishing to be readmitted to the School of Dance after a ten year period must audition and be reaccepted.
• If accepted, the audition committee will determine the degree plan and GPA requirements.
• General COFA policy rules apply beyond this point.

School of Drama
• Students wishing to be readmitted to the School of Drama after a ten year period must audition or present a portfolio/scholarly materials for review, as appropriate to their major area.
• At the audition or portfolio review a decision whether to accept the student will be made. Following acceptance, appropriate course placement within the curriculum will be determined as well as the emphasis/track the student is to follow.
• General COFA policy rules apply beyond this point.

School of Music
• Students wishing to be readmitted to the School of Music after a ten year period must audition and be accepted.
• If accepted, the audition committee will determine the degree plan the student is to follow (BFA, BMA, BME, BM), and the level of their applied lessons.
• General COFA policy rules apply beyond this point.

Department of Musical Theatre
• Students wishing to be readmitted to the Department of Musical Theatre after a ten year period must audition and be accepted.
• If accepted, appropriate course placement within the curriculum will be determined.
• General COFA policy rules apply beyond this point.

Graduate Study
For detailed information concerning graduate work refer to the section on graduate study within the School of Art, School of Dance, School of Drama, and School of Music sections of this catalog.
School of Art

Andrew Phelan, Director
Allison Palmer, Assistant Director, Undergraduate Programs
Eric Anderson, Assistant Director, MFA Programs
Susan Caldwell, Assistant Director, MA Programs
Fred Jones Art Center, Room 202
Norman, OK 73019-3011
Phone: (405) 325-2691
FAX: (405) 325-1668
Internet: http://art.ou.edu

Faculty Roster
Professors Aebersold, Jordan, Kicz, Phelan, Youritzin; Associate Professors E. Anderson, Basic, S. Caldwell, Hayes-Thumann, Heap of Birds, Hissey, Mau, Oliveira, A. Palmer, Stout, M. J. Watson; Assistant Professors A. Brown, L. Jones; Artist-in-Residence P. Moore; Film Maker-in-Residence S. Brittan; Charles Marion Russell Memorial Chair, Director of the Charles M. Russell Center for the Study of Art of the American West, and Professor of Art, B. Price.

Degrees Offered
• Bachelor of Arts in Art History
• Bachelor of Fine Arts in Art — Studio Art (painting, printmaking, ceramics, and sculpture), Media (photography and film/video), Visual Communications, and Art History
• Master of Arts in Art — Art History
• Master of Fine Arts in Art — Studio Art (painting, printmaking, ceramics, and sculpture), Media, and Visual Communications

General Information
The School of Art includes four broad divisions: studio art, art history, media, and visual communications. Studio Art consists of programs in painting, printmaking, sculpture, and ceramics. Art history is a humanities field that studies the history of art, artifacts and architecture. Media includes the photography, video, and film areas. Visual communications majors become graphic designers, illustrators, production managers and other visual specialists working in advertising and related fields.

The School of Art is the largest, most comprehensive art school in Oklahoma having a faculty of 26 full-time artists, designers, scholars, a full-time Artist-in-Residence, and the Charles Marion Russell Memorial Chair of Art of the American West, serving approximately 430 undergraduate and over 30 master’s level students. The primary goals of the school are to provide excellent professional education and a focus for the study of visual arts on both the graduate and undergraduate levels.

Additionally, the School of Art is dedicated to promoting, pursuing and supporting creative activity and scholarly research in the visual arts. Students from Oklahoma come to the School of Art from a variety of educational backgrounds—from urban, rural and suburban high schools or community colleges—with many students returning to college after other careers to gain new skills. Out-of-state and international students join those native to Oklahoma to provide a stimulating and exciting blend. The School of Art adds to this exciting atmosphere a thought-provoking series of guest artists and scholars with visits to museums and galleries in nearby cities. The school is proud of its many alumni from the undergraduate and graduate programs who have enjoyed outstanding professional success.

Students in Design
Red Clay Faction
Art History Association

Special Facilities
The primary facility for the school is the Fred Jones Art Center, which contains classrooms, studios, darkrooms, video and film editing rooms, computer labs for undergraduate and graduate programs, faculty offices, the Lightwell Gallery (an exhibition space) and some graduate student studio spaces. Additional studio spaces for faculty and graduate students are located on North Campus adjacent to the Max Westheimer Airport. The Ceramics Studio is located on South Base near the OU Department of Public Safety. The Old Faculty Club building across Boyd Street has been renovated to house the Charles M. Russell Center for Study of the Art of the American West, and studio and teaching space for the School of Art Artist-in-Residence.

The Fred Jones, Jr. Museum of Art is located next to the School of Art on the west end of the Fred Jones Art Center. The museum houses an excellent and varied collection of art and also offers a wonderfully rich series of thematic shows and traveling exhibitions. Art school faculty exhibitions and the annual student exhibition are a regular part of the museum’s exhibition schedule.

Construction is progressing on a new $14 million, 34,000-square-foot addition located to the west of the Museum’s existing 27,000-square-foot building expected to open in the fall of 2004. To be named in honor of Mary and Howard Lester of San Francisco, the wing will permanently house the ”Weitzenhoffer Collection of French Impressionism.” The wing will also include galleries for other selections from the Museum’s permanent collection, an auditorium, an orientation room, a classroom, a museum store, and a new main entrance.

Programs for Excellence
Across Boyd Street is the Old Faculty Club which houses the Charles M. Russell Center for the Study of Art of the American West. The center is dedicated to the pursuit of knowledge in the field of American art history as it relates to the Western United States. Through its library, national symposia, campus course offerings, archives, and related outreach programs, the Russell Center actively engages students and the public in developing a better understanding of and appreciation for 19th and 20th century Euro-American and native American artistic traditions.

In addition to the Charles M. Russell Center, the School of Art is pleased to offer students the privilege of working with nationally and internationally known artists under the Visiting Artist and Artist-in-Residence programs. Visiting artists come to campus for varying periods offering students and faculty insights into many cultures and professional backgrounds.

Scholarships and Financial Aid
Several forms of financial aid are available to qualified students. These include scholarships, graduate assistantships, tuition or fee waivers, and work-study support. Scholarships and graduate assistantships are available on a competitive basis.

The School of Art offers the Frances Weitzenhoffer Memorial Fellowship (for graduate students in art history), Ben Barnett Scholarships (for all School of Art students), the Robert Monroe Scholarships (for graduate students), and the Selma Naifeh Scholarship.

For further information, please write to:
School of Art
University of Oklahoma
520 Parrington Oval, Room 202
Norman, OK 73019-3011; or
visit the School’s web site at www.ou.edu/finearts/art/.
Undergraduate Study

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ADMISSION

The School of Art accepts the admission requirements of the University of Oklahoma for incoming freshman and transfer students. In addition to these general requirements for admission, **all students seeking entry into the Bachelor of Fine Arts in Art programs must successfully complete the Home Test prior to March 1, for admission to the following fall semester.** Further details about the Home Test can be found on the School of Art website [http://art.ou.edu](http://art.ou.edu). Students must have successfully completed the home examination and been accepted into the Foundations program before being allowed to enroll for classes. The Foundations courses are sequential in nature and can only be started in the fall semester. All students entering the Foundations program enter the School of Art as an Art Undecided major.

Admission to an area of specialization (Studio Arts, Media, or Visual Communications), is by portfolio review during the spring semester of the Foundations program.

Students who have taken studio coursework at another institution must meet with a Foundations advisor to determine if courses can be substituted for the Foundations requirements. These students must then go through a portfolio review and be accepted into an area of specialization as outlined above.

DEGREE REQUIREMENTS

The School of Art requires all BFA students to complete the Foundation Program and to participate in the portfolio selection process in order to be accepted into a field of emphasis, and into the appropriate professionally directed educational experiences. Studio BFAs require a minimum of 124 semester hours with approximately 80 semester hours in the art or design area of emphasis. In art history, both the BFA and the BA degree programs require some studio art, but the BA requires more liberal arts within the 124 hours required for the degree. The art history major requires successful completion of 15 hours in a foreign language. All art majors must maintain an OU retention and combined retention grade point average of at least 2.50, with a grade of C or better in his/her major and must complete at least 40 semester hours of upper-division coursework. Successful completion of a senior capstone experience is required of all undergraduate art students.

ART HISTORY MINOR

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The School of Art offers a minor in Art History that is open to all undergraduates in the university. Students must complete a minimum of 15 hours of Art History coursework guided by an Art History advisor. A grade of C or better is required for each course with an overall 2.50 minimum gpa. For additional information, please contact the School of Art office or the College of Fine Arts Dean’s office.

Graduate Study

ADMISSION

Master of Arts in Art with emphasis in Art History

The requirements for admission to the MA program in art history are a bachelor’s degree in art history or a related field with a 3.00 cumulative grade point average. Students must submit a letter of intent, three letters of reference, GRE scores and a copy of one or more art history papers to the School of Art along with the internal School of Art application.

The OU application and transcripts should be sent directly to the Office of Admissions. International applicants are required to demonstrate an appropriate mastery of English and submit satisfactory TOEFL scores.

Master of Fine Arts in Art

The requirements for admission to the MFA program normally include: a BFA degree with a 3.00 grade point average (or equivalent credentials), submission of a portfolio of visual work in the form of slides, video tapes, films, computer disks or original work, a letter of intent, and three letters of reference should be sent directly to the School of Art along with the internal School of Art application.

Application and transcripts should be sent directly to the Office of Admissions. International applicants are required to demonstrate an appropriate mastery of English and submit satisfactory TOEFL scores.

DEGREE REQUIREMENTS

Master of Arts in Art with emphasis in Art History

The degree requirements for the MA in art history include completion of 30 credit hours with a 3.00 grade point average, including 18-26 hours in the major area, four hours of thesis research and successful completion of the thesis. In certain cases it may be possible to take six to eight hours in a minor field. Students must also demonstrate reading proficiency in a foreign language, usually French or German, through successful completion of a University-administered exam.

Students are required to present a formal thesis proposal to their full committee and graduate liaison prior to the approval of final thesis work. A thesis defense is required of the art history MA candidate.

Master of Fine Arts

The degree requirements for the Master of Fine Arts require a minimum of 60 credit hours with a 3.00 grade point average. Requirements include studio hours, nine hours of art history, theory or directed readings, four hours of graduate seminar, and successful completion of four hours of thesis exhibition with an appropriate written document accompanying that exhibition. Visual documentation of the thesis work must also be submitted (traditionally by slides, but video tape or another format will be accepted if appropriate to the work).

Following the completion of approximately 30 credit hours in the MFA program, the student undergoes a rigorous midway review which includes a formal presentation to the graduate faculty. If the candidate is demonstrating satisfactory progress, the student will be allowed to proceed towards the degree. The student’s progress will again be reviewed by their graduate committee prior to the final thesis exhibition. Thesis exhibition and defense includes a formal presentation to the graduate faculty, a written component, and approval by their thesis committee.

The crown jewel of the $18 million Donald W. Reynolds Performing Arts Center is the renovation and expansion of Holmberg Hall. The 750-seat performance hall will feature a domed ceiling, modern acoustical features and a stage tower.
School of Dance

Mary Margaret Holt, Director and Graduate Liaison

Physical Sciences Building, Room 429
Norman, OK 73019-3110
(405) 325-4051
FAX: (405) 325-7024
Internet: www.ou.edu/college/finearts/dance/

Faculty Roster
Professor Emeritus Terekhov; Professor Holt; Associate Professor Edwards; Assistant Professor Lindberg; Instructors Grundvig, Perry, Redwine.

Degrees Offered
- Bachelor of Fine Arts in Dance (emphasis in classical ballet performance or pedagogy, or modern dance)
- Master of Fine Arts in Dance (emphasis in classical ballet or modern dance performance, pedagogy and/or choreography)

General Information
Since its inception over 40 years ago, the School of Dance has established a national reputation for its excellence in training in ballet and modern dance techniques, for its production values, and the quality of its graduates. Firmly rooted in a performance-oriented philosophy, the school is composed of nine faculty members, five accompanists, a staff musician, body conditioning specialist, five graduate teaching assistants and approximately 80 majors. Students develop their technical and expressive gifts guided by a faculty representing an unusually fine blend of professional experience and academic excellence. Students work in a pre-professional environment devoted to the dance student as performer, artist and educated individual. During completion of the University’s general education requirements, dance students learn about related arts from theoretical, historical and theatrical perspectives, while simultaneously perfecting their skills as emerging dance artists. Oklahoma Festival Ballet and Modern Repertory Dance Theatre provide performance opportunities on campus and throughout the state and region through fully produced performances, laboratory performances and lecture demonstrations. In addition, a production choreographed by students is presented on an annual basis.

Our facilities are housed in the Fine Arts Center, also home of the School of Drama, and provide the perfect setting for our collaborative efforts in production and theatrical training. Three fully equipped studios and one practice studio, in addition to the 600-seat Rupel Jones Theatre, classrooms, make-up room, scene and costume shops and dressing rooms, comprise a facility in which our students can work and learn to their fullest potential.

The School of Dance is delighted that the Donald Reynolds Foundation has approved a grant in excess of 12 million dollars which will, with additional University of Oklahoma support, fund the renovation of Holmberg Hall and the construction of a new state of the art dance facility. The new building will be adjacent to Holmberg Hall and the Fine Arts Center and it will house faculty offices and conference rooms, two large dance studios, a media and study center, a lovely gallery/reception space, dance archives room, body conditioning studio and student warm-up areas. This new facility will ensure that our students have the best possible environment in which to study dance developing their technical, expressive and intellectual gifts as they move toward professional careers.

STUDENT ORGANIZATION
- Drama and Dance Association (DADA)

Programs for Excellence
Oklahoma Festival Ballet and Modern Repertory Dance Theatre, resident companies of the School of Dance, provide numerous, diverse performing opportunities for dance majors in both disciplines. Each company gives an annual series of performances on campus in our home theatre. Company members also present the annual Young Choreographers Showcase in January. Additional performance opportunities exist through musicals and operas, in addition to lecture demonstrations in public schools, informal studio concerts and state and regional tours. Our companies are among the few college-based companies to participate in international tours to Japan, Mexico, Ecuador, Paraguay, Taiwan and France.

Company members are selected by audition at the beginning of each semester. Majors in the performing emphasis are required to perform eight semesters, with pedagogy emphasis majors performing four semesters. Graduate students may also be performing members of the companies.

Our companies have been chosen for the National ACDF Gala Performance at The Kennedy Center for the Performing Arts in Washington, D.C., have also received awards at the American College Dance Festivals (South Central) and favorable reviews in Dance Magazine, Saturday Review and the New York Times as well as from the foreign press. Performing companies are open by audition to all dance majors and university students enrolled in a dance class. The companies perform original works as well as others by Balanchine, Graham, and Hodes. Participation by dancers of diverse cultural and ethnic backgrounds is encouraged.

Scholarship Information
A number of merit based scholarships are available through the School. These include Barnett Foundation Scholarships, fee waivers for Oklahoma residents, non-resident tuition waivers, the Mark Allen Everett Foundation Scholarship, and additional foundation scholarships. For specific information and deadlines, contact the School of Dance at (405) 325-4051.

Undergraduate Study
The School of Dance offers undergraduate degree programs in classical ballet (with performance or pedagogy as an emphasis) and modern dance.

ADMISSION
The School of Dance follows the admission requirements of the University of Oklahoma and the College of Fine Arts; however, admission to a dance degree program requires an admission audition which also serves as a placement class. All class assignments are based on proficiency. Auditions may be scheduled on an individual basis by contacting the School of Dance.

DEGREE REQUIREMENTS
Undergraduate programs require a minimum of 124 semester hours, including all dance and general education requirements, with a minimum of 40 hours taken at the upper-division level. All students must meet and maintain college admission requirements with a grade of at least a C in all courses in the major area. Dance majors are advised concerning course enrollment and advancement in the degree program by an assigned faculty member each semester. All regulations and degree requirements are available in the Dance Office, Holmberg Hall, Room 215, Norman, OK 73019.

Graduate Study
The Master of Fine Arts in Dance emphasizes either performance, choreography or pedagogy and requires completion of 54 semester hours. Six of these hours must be taken outside the School of Dance. Admission to the graduate program follows the requirements of the Graduate College and also includes an interview and audition by the graduate faculty of the School of Dance. Students are expected to have completed an undergraduate degree in dance.
School of Drama

Tom Orr, Interim Director
Judith Pender, Graduate Liaison
Old Science Hall, Room 121
Norman, OK 73019-3091
(405) 325-4021
FAX: (405) 325-0400
Internet: http://www.ou.edu/finearts/drama/

Faculty Roster
Professors Buchwald, McDougall; Associate Professors Fain, Koger, Shaughnessy; Assistant Professors Bernd, Cook, Haniuk, Pender; Professors Emeritus Eek, Lewis.

Degrees Offered
• Bachelor of Fine Arts in Drama (Acting, Design, Dramaturgy, Theatre Management, Technical Production)
• Master of Arts (Drama)
• Master of Fine Arts in Drama (Directing and Design)

General Information
The School of Drama strives to prepare students for professional careers in theatre. As a vital artistic training unit within a major university, the school believes the student’s experience should include all aspects of theatre production along with a strong academic component of theatre history and general education. The school seeks to train and educate theatrical artists, craftsmen and educators of the future.

The student/faculty ratio in the School of Drama assures the student extensive individual attention and guidance during each step of the program. Visiting artists supplement our resident faculty and staff in providing a wide range of experience for students as part of their growth and training as artists.

STUDENT ORGANIZATION
• Drama and Dance Association (DADA)

Programs for Excellence
OU’s School of Drama is the second oldest in the nation, and has a long and distinctive history as well as a reputation for excellence. This performance-based degree is supported by a multitude of diverse theatrical options. On the main-stages, an average of five plays and two musicals comprise the University theatre season (nine-month academic year). In the all student-run Lab Theatre in Old Science Hall, another eight productions are mounted. During the semi-professional OU SummerStage eight-week stock season, another three plays and one musical round out the calendar year. Throughout the year students hone their studio skills in a professional and challenging setting through multiple and varied performance and designer opportunities in diverse styles and venues.

The University of Oklahoma School of Drama has been the birthplace of several world and regional premieres. The school’s commitment to new works adds to the exciting atmosphere that permeates throughout the student’s academic career. Students are encouraged to attend a number of professional auditions each year. The School of Drama is NAST-accredited and active in the American College Theatre Festival.

Performance majors must audition each semester for upcoming productions. Auditions are held twice a year, August for the Fall semester, and November for the spring semester. Additional auditions are held as needed for added productions which may include children’s theatre shows, directing scenes, or MFA directing qualifiers. Design assignments are made at the beginning of each semester. In addition, students have opportunities to work as dramaturg, stage managers, audience development assistants, and technicians in the scenery, costume, lighting, properties, and sound areas.

Special Facilities and Programs
The School of Drama is located in the Fine Arts Center at 563 Elm on the northwest corner of the Norman campus. Completed in 1965, the center contains administrative and faculty offices; classrooms; dance studios; construction shops and storage spaces for scenery, costumes, lights, and properties; a computer-aided design lab; the highly flexible 600-seat Rupel J. Jones Theatre; and the more intimate, 200-seat Weitzenhoffer Theatre. The close proximity of the other schools in the College of Fine Arts gives students easy access to the music practice building, the Museum of Art, and the Fine Arts Library. In addition to the facilities in the Fine Arts Center, Old Science Hall houses the 80-seat Lab Theatre, faculty offices, acting studios, and a design lab.

The production auditions are open to all students in the University. Many classes in every aspect of theatre are offered to nonmajors for elective credit.

Scholarship Information
A number of scholarships and awards are available to qualified students. Applications for scholarships are available from the School of Drama office. Students who wish to have their scholarships renewed must reapply each year. Additional non-drama scholarships and financial aid are available through the University of Oklahoma Office of Financial Aid Services. These applications must be made separately. The following drama scholarships are available to qualified students:
• Ben Barnett Scholarships
• Theatre Guild Scholarships
• A. Max Weitzenhoffer Scholarship in Scene Design
• Mary Clarke Miley Minority Scholarships
• Fee Waiver Scholarships
• Non-Resident Fee Waiver Scholarships

March 1 is the application deadline for these awards.

At the close of each academic year the School of Drama recognizes individual achievement in an awards ceremony. Many awards carry cash prizes. The awards include:
• The Van Helfin Award
• The Buffalo Mask Awards
• Rupel J. Jones Directing Award
• Ida Z. Kirk Acting Awards
• Charles C. Suggs Stage Management Award
• A. L. Mortensen Technical Award
• Helen F. Lauterer Costuming Award

Undergraduate Study
The School of Drama offers the Bachelor of Fine Arts in Drama degree. The degree is designed to provide the student with a solid foundation in each basic area of the theatre, with an opportunity to begin specialization in the sophomore year. The concentrations are in the following areas:
• Acting—for undergraduate students interested in pursuing a career as a performer in professional theatre, television or film;
• Design—for undergraduate students interested in pursuing a career in scenic, costume or lighting design;
• Dramaturgy—for undergraduate students interested in pursuing careers and/or graduate study in dramaturgy, theatre history, directing or playwriting;
• Theatre Management—for undergraduate students interested in pursuing a career in stage management of theatre management;
• Technical Production—for undergraduate students interested in pursuing careers in scenic technology or costume technology.

Coursework at the undergraduate level includes acting, directing, voice and speech, stage movement and combat, graphics, stagecraft, costume construction and design, basic lighting fundamentals and design, scene design, theatre history, costume history, play structure and analysis, modern dance, ballet, jazz, tap, musical theatre performance, and history of musical theatre.
ADMISSION
The School of Drama, follows the basic admission requirements of the University of Oklahoma and the College of Fine Arts. Please refer to those sections in this catalog for specific details. In addition, admission to the OU School of Drama is by audition and/or interview only and requires an on-campus audition (for acting emphasis) or portfolio review (for design or technology emphasis), and/or interview (for dramaturgy or theatre management emphasis). Students must be officially accepted into the School of Drama by audition and/or interview before being allowed to enroll for classes.

DEGREE REQUIREMENTS
The undergraduate degree consists of a minimum of 126 credit hours, of which approximately 70 hours come from within the school. The University’s general education requirements and electives make up the remaining hours. Drama majors at the undergraduate level must meet and maintain college admission requirements as outlined above and must have a grade of C or higher in each course in his/her major field. At least 40 hours must be taken at the upper-division level (3000 and 4000-level courses). Students are advised each semester by the school faculty concerning enrollments, admission, advancement toward degree and career options.

Students considering a major in drama should contact the School of Drama Office (Room 209, Fine Arts Center) for curriculum plans outlining the above program and information covering auditions, admission policies and guidelines, awards and scholarships, and additional regulations, policies and practices.

AREAS OF SPECIALIZATION
- Master of Arts: theatre history, dramatic literature and criticism, and dramaturgy.
- Master of Fine Arts in Drama: directing, costume, scenic or lighting design.

PREREQUISITES FOR FULL GRADUATE STANDING
In addition to meeting the general requirements of the Graduate College, the student should have completed the following undergraduate coursework or its professional equivalent: six hours in acting, six hours in directing, three hours in stagecraft, three hours in costume construction, three hours in costume history, three hours each in scene, costume and lighting design, three hours in dramatic structure and analysis, and six hours in theatre history.

Students with deficiencies in any of these areas may be required by the graduate liaison to take coursework judged necessary to correct the deficiencies, without receiving graduate credit for the coursework. Once full graduate standing is achieved, the student must maintain a 3.00 grade point average and make satisfactory progress toward the degree to maintain full graduate standing.

MASTER OF ARTS
The M.A. is a scholarly degree with emphasis on theatre history, dramatic literature and criticism, and dramaturgy. The program is structured with the student’s particular needs and interests in mind. It requires 30 hours of coursework and contains 13 hours of core requirements and 17 hours of electives. It requires a thesis. Contact the School of Drama Office for further details.

MASTER OF FINE ARTS IN DRAMA
Directing
The area of specialization in directing leading to the M.F.A. in Drama is normally a three-year program requiring between 54 and 60 hours of coursework and the direction of at least three full-length productions. The individual student’s course of study is worked out in consultation with the student’s adviser. Contact the School of Drama Office for further details.

Design
The area of specialization in design for the MFA in Drama is normally a three-year program requiring between 54 and 60 hours of coursework. Students may emphasize scenic, costume or lighting design, or may concentrate in more than one of the traditional design areas. Contact the School of Drama Office for further details.

School of Music
Kenneth Fuchs, Director
Carl Rath, Coordinator of Undergraduate Studies
Irvin Wagner, Coordinator of Graduate Studies

Catlett Music Center, Room 138
Norman, OK 73019-2071
Phone: (405) 325-2081
FAX: (405) 325-7574
Internet: http://music.ou.edu

Faculty Roster

Degrees Offered
- Bachelor of Music—Performance Emphases: Composition, Guitar, Organ, Piano, Piano Pedagogy, Voice, and Winds/Strings/Percussion
- Bachelor of Music Education (Emphases in Instrumental or Vocal)
- Bachelor of Musical Arts
- Bachelor of Fine Arts (Music Emphasis)
- Master of Music
- Master of Music Education
- Doctor of Musical Arts
- Doctor of Philosophy in Music Education

General Information
The School of Music offers curricula for those who choose to pursue professional careers in music, and courses for all University students who may wish to acquaint themselves with music as listeners or participants. The school stresses scholarship and research and provides opportunities for the students to develop their powers of personal expression through performance, composition, historical, analytical and pedagogical disciplines.

The faculty includes well-known artists and scholars in the fields of performance, composition, education, history and theory. Recitals, concerts, operas, Broadway musical productions and seminars provide the students with a wide range of opportunities for musical and intellectual growth.

The School of Music is housed in three buildings: Stanley B. Catlett, Sr. Music Center, Holmberg Hall, and Carpenter Hall. The 25 million dollar Stanley B. Catlett, Sr. Music Center, completed in 1998, contains the School of Music administrative offices, faculty offices and studios, rehearsal suites, classrooms, MIDI labs, the Grant Fine Arts Library, a recording studio, and three performance halls, including the Paul E. Sharp Concert Hall, Morris R. Pitman Recital Hall, and Grayce B. Kerr Gothic Hall (for organ performance). Holmberg Hall houses faculty offices and the Auditorium, a theatrical stage used by the OU Opera Theater for its productions. Studios for the voice and piano faculty members are currently located in Carpenter Hall.
More than 100 grand and upright pianos, along with several pipe organs, are used for teaching and practice and are maintained by certified technicians. Included in the inventory of practice pipe organs are three Moellers, a Reuter and two Holtkamps. The School of Music also provides a large number of string, wind and percussion instruments for students studying secondary instruments. In addition, the school owns a growing collection of historical instruments for the performance of early music.

Two music technology labs house state-of-the-art MIDI equipment which is maintained with the latest releases of software, computers, synthesizers, and peripheral equipment.

The School of Music is a fully accredited institutional member of the National Association of Schools of Music. The requirements for admission and graduation are in accordance with the published regulations of the N.A.S.M.

**STUDENT ORGANIZATIONS**

- Sigma Alpha Iota (professional fraternity for women in music)
- Phi Mu Alpha (professional fraternity for men in music)
- Mu Phi Epsilon (professional fraternity for men and women in music)
- Tau Beta Sigma (band service organization for women)
- Kappa Kappa Psi (band service organization for men)
- Music Educators National Conference (MENC) (student chapter of the national organization)

**Programs for Academic Excellence**

Several nationally and internationally recognized ensembles are in residence at the School of Music. They receive invitations from state, regional, and national conventions and conferences by a competitive auditioning process. To have so many invitations speaks to the quality of education and musicianship at the School of Music. The “Pride of Oklahoma” Marching Band won the prestigious Sudler Trophy, recognizing outstanding marching band programs, in 1987. The “Pride” also appears at post-season bowl games televised to a national audience. The OU Jazz Ensembles appear yearly at the famous Wichita Jazz Festival in Kansas and frequently win awards for outstanding soloists. The OU Wind Symphony has performed numerous times at the Oklahoma Music Educators Association, American Bandmasters Association, and College Band Directors Association conventions. It has hosted the regional College Band Directors Association convention in 1970, 1980, 1990, and 2000. Studio ensembles in clarinet, trombone, percussion, oboe, bassoon and horn have been selected to perform at their respective international society on many occasions.

The OU Symphony Orchestra was selected to appear as the first college orchestra ever to perform at the Midwest International Band and Orchestra Conference. It has also accompanied the world-renowned pianist Van Cliburn in concert at the University of Oklahoma. Also appearing at the Midwest Band and Orchestra Conference was the nationally recognized OU Percussion Ensemble. It has also performed by invitation at the Percussive Arts Society’s national convention as well as at their regional and state conventions. The University Choir has performed several times at the Oklahoma Music Educators Association convention and also toured Europe in the summer of 1999.

The Piano Pedagogy program is recognized internationally for its leadership in the field, drawing students from the United States, Canada, Asia, Europe, and South America. Students and faculty alike present papers and workshops throughout the United States and abroad at state, regional, and national conventions and conferences. The outstanding Ruby Grant Piano Pedagogy Resource Center makes research materials on diverse topics available to students and scholars.

**Special Facilities and Programs**

The Grayce B. Kerr Gothic Hall houses the Mildred Andrews Boggess Memorial Organ, a $750,000 instrument designed specifically for the School of Music by the C. B. Fisk Company. Also located in Kerr Gothic Hall, which also serves as a grand entrance to the School of Music and a lobby for the two other performance spaces in the Catlett Music Center, are the FACTS Box Office and a concession area. The Paul F. Sharp Concert Hall provides seating for 1,018 patrons to enjoy the remarkable acoustics and architectural beauty of this Prairie Gothic style performance space. The smaller Morris R. Pitman Recital Hall reflects many of the same architectural details of the Paul F. Sharp Concert Hall and creates an intimate environment for 125 patrons to enjoy faculty and student chamber music recitals and lectures.

Catlett Music Center provides expansive rehearsal suites for large performing ensembles. Rehearsal suites for orchestra, band, and choral areas are acoustically designed for the enhancement of the teaching and learning process. Each suite contains equipment for the recording and playback of rehearsals to aid in the learning process as well as large libraries of repertoire which are continuously updated. The percussion suite is an extensive complex of large rehearsal rooms, offices, and practice rooms dedicated for percussion studies. The University of Oklahoma Percussion Press, which publishes literature for all levels of percussion study from solos to large percussion ensembles, is also located in the percussion suite. Two electronic piano labs facilitate the teaching of piano skills to non-pianists. In conjunction with these labs, the piano pedagogy program maintains the Ruby Grant Piano Pedagogy Resource Center, a repository for information and literature invaluable to students and educators alike.

Technology plays an important role in the educational process at the School of Music. Each classroom contains audio/visual equipment for demonstrations in lectures and presentations. In addition, pianos are provided in most classrooms. A state-of-the-art recording studio/electric music laboratory features the latest computer and sound equipment, software, and recording devices for composition and individual recording sessions. All concerts and recitals at the School of Music are also recorded on state-of-the-art digital recording equipment for production of compact discs. Two MIDI labs contain fifty Macintosh G3 computers with Kurzweil 2000 synthesizers, Kawai synthesizer modules, mixers, and the latest editions of music software, including Finale 98, Digital Performer, and music theory software. These labs are used in the instruction of music theory, composition, MIDI technology, and orchestration. Students are able to use the MIDI labs outside class time for individual and class projects. Individual faculty studios and offices are also equipped with computers, synthesizers, and stereo equipment to aid in teaching and research.

The School of Music offers many opportunities to all University students for participation in performing ensembles. For students who demonstrate sufficient musical ability to quality, the following ensembles are available: the University Symphony Orchestra, Opera, Musical Theatre, Collegium Musicum, University Choir, University Chorale, University Chorus, Symphonic Band, Concert Band, Marching Band, Trombone Choir, Jazz Ensemble, Percussion Ensemble, Clarinet Choir, Brass Choir, Flute Choir, New Century Ensemble and numerous other ensembles such as woodwind and brass quintets, string quartets, and trios. Students should consult the class schedule and director concerned for membership in each ensemble.

All undergraduate students majoring in music are required to participate in one or more of the following ensembles: Marching Band, Symphonic Band, Wind Ensemble, University Symphony Orchestra, University Chorus, University Chorale, University Chorus, Opera, or Musical Theatre. For satisfactory participation in performing ensembles, one credit hour per semester in each ensemble may be earned. Each degree program in music and music education has special requirements for participation in ensembles.
Scholarships, Awards and Financial Aid

Tuition waivers are awarded on the merits of the audition for admission to the School of Music. Renewal of an award is based on the student's musical and academic performance each year. Students are eligible for other scholarships and awards once they have matriculated to the University of Oklahoma. More than $200,000 in tuition waivers and $40,000 in scholarships are awarded annually. Information about these awards can be obtained from the Coordinator of Undergraduate Studies within the School of Music. Additional non-music related scholarships and financial aids are available to qualifying students through the University of Oklahoma Office of Financial Aid Services.

Graduate assistantships are available in: voice, piano (class and private), choral music, band (marching/concert), music theatre, music theory, composition, music appreciation, MIDI technology, music education, and applied music. In addition to a stipend of at least $7,700 for the academic year, half-time graduate assistants receive a full waiver of non-resident tuition and a waiver of up to six hours of resident tuition for the fall and spring semesters of their appointment. Half-time graduate assistants are also eligible for subsidized single health coverage under the Student Health Plan as a benefit of employment. International students offered graduate assistantships may be required to pass a series of English tests administered by the English Assessment office prior to being appointed. Part-time appointments are also available, but with commensurate reduction in stipend and tuition waivers. Applications may be secured from the Coordinator of Graduate Studies in Music.

In addition to the regular scholarships and music awards, several special awards are given annually to outstanding students.

Undergraduate Study

ADMISSION

The School of Music accepts the admission requirements of the University of Oklahoma for incoming freshman and transfer students. In addition to these general requirements for admission, all students must pass an audition in the major/ principal applied instrument/voice before enrolling as a music major. Additional supporting material, including a resume, two letters of recommendation, and a short essay, must be submitted to the School of Music in order to complete the admission process. Also, entering music students are required to take a music theory/music fundamentals placement examination, play or sing a performance audition, and take a piano skills examination to determine placement in an appropriate piano class or private study.

Additional admission requirements for acceptance into the College of Fine Arts as a music major are as follows: completion of at least 24 semester hours of college credit; a minimum combined retention grade point average of 2.50; and an adjudicated audition for the appropriate School of Music faculty. Please consult the School of Music (CMC 138) for specific information.

Degree Requirements

In addition to the regular curriculum requirements, all students who are candidates for the degrees Bachelor of Music, Bachelor of Musical Arts, Bachelor of Music Education, and Bachelor of Fine Arts (Music Emphasis) must satisfactorily meet the following special requirements.

ENROLLMENT LIMITATION

The number of times a music student can retake a required course, in an attempt to raise the grade, is limited to two. If a student has enrolled in a required course three times and does not receive a C or better, the student will not be allowed to pursue any music degree program for which that course is a requirement. If a student has twice received a D, or F, he/she must write a letter to the Director of the School acknowledging that this is the final attempt to pass the course. A professor is allowed to drop a student from any course if he/she enrolls for a fourth time.

This regulation concerning the limited repetitions of a course does not apply to applied music study nor to ensemble study. Most applied areas have specific regulations concerning the number of semesters a student can enroll in lower-division applied study before passing to upper-division study and upper-division applied study. It is the student’s responsibility to check with the appropriate applied area concerning the limitation.

SOPHOMORE PROFICIENCY EXAM

To continue at the junior level as a music major, all students must pass a sophomore proficiency examination in the major/principal instrument/voice at the end of the sophomore year.

PIANO PROFICIENCY

All students majoring in music must satisfactorily demonstrate a level of proficiency in piano appropriate to their respective degree programs. Students in music education or music performance can satisfy this requirement by completing the required number of levels of group piano and/or piano with a grade of C or better for each level. Students in composition must demonstrate their MIDI proficiency through examination. All students will be auditioned and placed into appropriate levels of piano at the beginning of their musical studies on campus. For music education majors, the piano proficiency requirement must be satisfied prior to enrolling in student teaching. Students may consult with the coordinator of group piano or their advisor for further information.

DEGREE RECITALS

All candidates for baccalaureate degrees in music with the exception of the Bachelor of Fine Arts, must present one or two public degree recitals (depending upon the respective degree program). All recitals presented in partial fulfillment of degree requirements must be previewed and approved by a faculty committee prior to scheduling the recital (recital previews are scheduled monthly throughout the academic year).

A. Candidates for the Bachelor of Music in Performance must present two public recitals, the Junior Recital and the Senior Capstone Experience (paper and recital).

B. Candidates for the degrees of Bachelor of Musical Arts and Bachelor of Music Education must present a public recital as part of the Senior Capstone Experience.

C. Candidates for the Bachelor of Fine Arts must complete a research project resulting in a substantial paper (25-30 pages in length) as the Senior Capstone Experience. This paper should reflect careful examination of some aspect of the student’s musical study.

VALIDATION OF TRANSFER CREDIT

Transfer credit for applied music will be validated only by an examination when such credit is to be applied to a degree offered by the School of Music. Transfer students whose advancement is below the junior level and who expect to continue study, must enroll in Applied Music 2010 and will be examined at the end of the semester for placement in a course sequence and validation of transfer credit. All other students wishing to validate transfer credit in applied music should arrange appointments for examination during the week of registration.

PUBLIC PERFORMANCE

Students majoring in music or music education are required to attend rehearsals and take part in the public performances sponsored by the school whenever their participation is desired, but may not perform in public or for radio or television without permission of the applied instructor and the Director of the School of Music.

CLASS ATTENDANCE

Students are expected to attend every class session and private lesson as scheduled. Instructors in applied music are required to make up lessons which they cancel for personal reasons. They are not required to make up lessons missed by failure of the student to attend, nor those missed on occasions when requested to leave the campus as official representatives of the University. Lessons falling on University holidays will not be made up.
RE bât AttENDANCE

Each candidate for the degree of Bachelor of Music must present eight semesters of Satisfactory (S) attendance in MUTE 1010 for graduation.

Each candidate for the degree of Bachelor of Music Education or Bachelor of Musical Arts must present six semesters of Satisfactory (S) attendance in MUTE 1010 for graduation.

Each candidate for the degree of Bachelor of Fine Arts with music emphasis must present four semesters of Satisfactory (S) attendance in MUTE 1010 for graduation.

The S grade is predicated on a satisfactory attendance at a specified number of concerts each semester. A syllabus is available from the School of Music Office (CMC 138).

If a student feels that an exception is warranted, a petition signed by the student’s adviser, must be submitted to the School of Music Recital Policy Committee. The committee will determine if the exception is to be granted and, if granted, what the alternative will be.

Graduate Study

ADMISSION

To be admitted in full standing to a graduate degree program in music, the applicant must hold a degree in music or music education (or the equivalent) from an accredited college, university, or comparable institution; present a grade point average of at least 3.00 for the last 60 semester hours of undergraduate study (for entering master’s degree students) or all previous graduate work (for doctoral students); submit a completed application for graduate admission with official transcripts of all college work to the Office of Admissions of the University. In addition, the applicant must submit a completed personal data form, copies of all transcripts, and three letters of reference to the School of Music’s Graduate Studies Office, and demonstrate competence in the proposed major field of study as described below. All doctoral applicants must submit a writing sample. GRE scores, while not required, are strongly encouraged.

All prospective students in music performance or conducting must present a satisfactory audition for admission. Prospective M.M. students must perform a 30-minute audition or submit a recent tape recording of 30 minutes in duration. Future DMA students must present one-a-hour audition. For pianists and singers, it must be fully memorized. For all other performers, at least a portion of the audition must be performed from memory. All Ph.D. and DMA applicants must submit a writing sample. If a student feels that an exception is warranted, a petition signed by the student’s adviser, must be submitted to the School of Music Recital Policy Committee. The committee will determine if the exception is to be granted and, if granted, what the alternative will be.

All prospective students in music performance or conducting must present a satisfactory audition for admission. Prospective M.M. students must perform a 30-minute audition or submit a recent tape recording of 30 minutes in duration. Future DMA students must present a one-hour audition. For pianists and singers, it must be fully memorized. For all other performers, at least a portion of the audition must be performed from memory. All Ph.D. and DMA applicants must submit a writing sample.

Applicants to the DMA Choral Conducting, Instrumental Conducting (wind track), or Instrumental Conducting (orchestral track) must rehearse a work of their choosing with a University ensemble for about 25 minutes and then rehearse music which is completely new to the applicant and the ensemble for about 20 minutes.

Composition students must submit scores of original compositions along with recordings of those works (if available) for admission to the M.M./Composition Program. DMA/Composition prospects must present a one-hour narrated audition of their works performed live or by recording.

Prospective M.M./Musicology and Music Theory students must also present a taped or live audition. Music education students must present a tape recording (cassette, disc, or video) of a band, orchestral, or choral performance, classroom instruction, or ensemble rehearsal which demonstrates teaching effectiveness.

Applicants for the Ph.D. in Music Education must provide evidence of two years of successful full-time music teaching experience at the elementary, secondary or college level. In addition, they must present a tape recording demonstrating teaching effectiveness as well as a detailed description of their teaching and other professional experiences. They must also submit a writing sample. Piano pedagogy students wishing to complete an emphasis within the Ph.D. program must present an audition of at least 15 minutes.

All international students (whose native language is not English) must present evidence of proficiency in the English language prior to being considered for admission to a graduate degree program. Please consult the Admissions section of this catalog for information on the various ways a graduate applicant may satisfy the English proficiency requirement.

Every student entering a Master of Music, Doctor of Musical Arts or Doctor of Philosophy degree program must take the Preliminary Examinations (proficiencies in music history, music theory, aural perception and sight singing). Additional examinations are required as appropriate to the particular degree.

Degree Requirements

Kodály Certificate Program

A Kodály Certificate is awarded upon completion of an 18-hour program of study in Kodály methodology, solfège, and folk song research. The following courses comprise the Kodály certificate program:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUED 5562</td>
<td>Solfège I</td>
<td>2</td>
</tr>
<tr>
<td>SUED 5572</td>
<td>Solfège II</td>
<td>2</td>
</tr>
<tr>
<td>SUED 5553</td>
<td>Kodály Concept I</td>
<td>3</td>
</tr>
<tr>
<td>SUED 5563</td>
<td>Kodály Concept II</td>
<td>3</td>
</tr>
<tr>
<td>SUED 5573</td>
<td>Kodály Concept III</td>
<td>3</td>
</tr>
<tr>
<td>SUED 5582</td>
<td>Folk Song Research</td>
<td>2</td>
</tr>
<tr>
<td>SUED 5554</td>
<td>Kodály-Related Elective(s)</td>
<td>3</td>
</tr>
</tbody>
</table>

To be accepted in this certificate program, the applicant must be admitted as an unclassified student in the Graduate College or as a student in a degree program in the School of Music. The applicant seeking admission as an unclassified student must present a grade point average of at least 3.00 for the last 60 semester hours of undergraduate study and submit a completed application for graduate admission with official transcripts of all college work to the Office of Admissions of the University. The applicant seeking admission to a degree program should follow the procedure for admission given for the master’s or doctoral program below.

Master’s Degrees

The Master of Music degree (M.Mus.) is awarded upon completion of an approved program of study in performance, choral conducting, instrumental conducting, composition, music history or music theory. The Master of Music Education degree (M.Mus.Ed.) is awarded upon completion of an approved program of study designed to develop competence as a musician-teacher with emphasis in vocal/general, Kodály Concept, choral conducting, instrumental conducting, secondary instruments, and piano pedagogy.

All Master of Music performance and conducting degrees require a recital and an Oral Comprehensive Exam. The Master of Music degree in composition requires a recital and a thesis. The Master of Music degrees in musicology and music theory require a thesis. Master of Music Education students may choose, with the approval of their advisor, either to take an Oral Comprehensive Exam or write a thesis. A recital is an elective option for the Master of Music Education. The thesis option is not available in the Kodály emphasis.
The Oral Comprehensive Exam or the Thesis Defense is scheduled upon completion of all requirements for the degree. It is administered by a faculty committee representing the areas of music theory, music history, and the student’s major field.

PRELIMINARY EXAMINATIONS

All students accepted to the Master of Music or Master of Music Education degrees are required to take a series of Preliminary Examinations prior to enrolling in their first semester of study. These exams are administered the week before classes begin each semester. The Preliminary Examinations serve both as a diagnostic examination in determining areas of deficiency and as a standard for the assessment of basic skills and knowledge requisite to establishing degree candidacy. Failure to complete any area of the Preliminary Examinations upon entering a master’s degree program results in presumed deficiency. The student’s performance on these examinations has no effect on his/her admission status as a graduate student. Under no circumstances, however, will enrollment be continued past two semesters if all Preliminary Examinations have not been satisfactorily completed. The component areas of the Preliminary Examinations are as follows:

Standard Areas—All Degree Students
1. Music History and Literature.
3. Aural Perception.

Other Examinations
1. Vocal Performance—required for M.Mus.Ed. with vocal emphasis and M.Mus. in choral conducting.
2. Instrumental Performance—required for M.Mus.Ed. with emphasis in string, wind, and percussion instruments.
4. Piano Sight Reading—required for M.Mus. in voice, choral conducting, composition, theory, and music history, and M.Mus.Ed. with emphasis in voice and piano.
5. Vocal Technique—required of M.Mus. in choral conducting (written).

LANGUAGE REQUIREMENTS

Language competence required for the Master of Music degree in voice is equivalent to two semesters of study of Italian and one semester of study of French. The Master of Music degree in musicology requires reading competence equivalent to four semesters of study of German or another appropriate language approved by the musicology faculty. Competence may be demonstrated through satisfactory completion of appropriate language courses at the University of Oklahoma or another university, or successful completion of appropriate placement examinations administered by the Department of Modern Languages, Literatures and Linguistics. Credit earned in remedial language study at the University of Oklahoma is not applicable to degree requirements.

GENERAL REQUIREMENTS

A maximum of eight semester hours may be transferred toward a master’s degree provided that such a transfer is in accordance with policy established by the Graduate College and the Graduate Studies Committee in Music. All degree requirements must be completed within a five-year period. While certain degree programs may be completed through summer enrollments, candidates for the Master of Music degree in performance must enroll in applied music for a minimum of two consecutive regular semesters. Curricula leading to the awarding of the master’s degrees are listed as follows:

Master of Music Majors

PIANO MAJOR

Applied Music, Piano 5020 ................................................. 8-12
Recital, GRRE 5042 .......................................................... 2
Music History/Literature ....................................................... 6
Music Theory* ................................................................. 6
Music Electives ................................................................. 6-10
Total Hours 32

NOTE: Two semesters of Instrumental Chamber Music (MUTE 6131 and 6143) may be applied to degree electives. Students disclosing a deficiency in piano sightreading will be required to enroll in Studio Accompanying until the deficiency is removed through retesting.

PIANO MAJOR WITH PIANO PEDAGOGY EMPHASIS

Applied Music, Piano 5020 ................................................. 8-12
Recital, GRRE 5042 or Workshop, MUED5652* ................. 2
Music History/Literature ....................................................... 6
Music Theory* ................................................................. 6
Electives in Piano Pedagogy and Music ............................... 6-10
suggested MUED 5612, 5622, 5632, 5642, 5662,
MUTH 5812, MUTE 5612, MUED 5672
Total Hours 32
* Presentation of a public three-hour workshop in teaching techniques and materials for piano teachers.
* Excluding MUTH 5812 and 5822.

ORGAN MAJOR

Applied Music, Organ 5020 ................................................. 8-12
Recital, GRRE 5042 .......................................................... 2
Music History/Literature ....................................................... 6
Music Theory* ................................................................. 6
Music Electives ................................................................. 6-10
Total Hours 32
*Excluding MUTH 5812 and 5822.

VOICE MAJOR

Applied Music, Voice 5020 ................................................. 8-12
Recital, GRRE 5042 .......................................................... 2
Music History/Literature ....................................................... 6
Music Theory* ................................................................. 6
Music Ensembles (2 semesters) ........................................... 2
Electives* ................................................................. 7-11
Total Hours 32
* Excluding MUTH 5812 and 5822.

WIND, STRING, OR PERCUSSION MAJOR

Major Instrument at the 5020 level ..................................... 8-12
Recital, GRRE 5042 .......................................................... 2
Music History/Literature ....................................................... 6
Music Theory* ................................................................. 6
Music Ensembles (2 semesters) ........................................... 2
Music Electives* ................................................................. 4-8
Total Hours 32
* Excluding MUTH 5812 and 5822.

* A maximum of four hours in large ensembles is permitted. Students may count no more than two hours in chamber ensembles toward degree requirements.

CHORAL CONDUCTING MAJOR

Adv. Choral Conducting MUTE 5512, 5522 ......................... 4
Choral Score Studies MUTE 6152 ......................................... 4
Recital, GRRE 5042 .......................................................... 2
Choral Ensemble (2 semesters) ........................................... 2
Music History/Literature ....................................................... 6
Music Theory* ................................................................. 6
Music Electives* ................................................................. 8
Total Hours 32
* Excluding MUTH 5812 and 5822.

* Electives may be chosen from any field of music or, with the adviser’s approval, from related non-music fields.
INSTRUMENTAL CONDUCTING MAJOR
Instrumental Conducting, MUTE 5522 ........................................... 4
Instrumental Score Studies, MUTE 5532 ................................. 4
Recital, GCRE 5542 ............................................................... 2
Band, MUTE 5130, or Orchestra, MUTE 5140 (2 semesters) ...... 2
Music History/Literature .......................................................... 6
Music Theory* ........................................................................ 6
Applied Music (5010 level)* ..................................................... 4
Music Electives* ..................................................................... 4
Total Hours 32
* Excluding MUTH 5812 and 5822.
^ Study in secondary instruments may be permitted if the student demonstrates satisfactory competence in the principal instrument. Substitution of courses from other areas may be permitted with prior approval.
* Electives may be chosen from any area in music or from related non-music fields.

MUSICOLOGY MAJOR
Music History ............................................................... 12
Thesis, MUHI 5980 ............................................................... 4
Bibliography and Research in Music, MUS 5112 ......................... 2
Music Theory* ........................................................................ 6
Music Electives* ..................................................................... 8
Total Hours 32
* Excluding MUTH 5812 and 5822.
* Electives may be chosen, in consultation with adviser, from any field as long as the course is at the 5000-level or higher.

NOTE: Reading competence equivalent to four semesters of study of German of another appropriate language approved by the Musicology and Ethnomusicology faculty is required. Competence may be demonstrated either through satisfactory completion of the equivalent at another college or university or satisfactory completion of an appropriate placement examination administered by the Department of Modern Languages.

ORAL EXAMINATION: Students shall pass an oral examination prior to the thesis defense. This examination will be based on a reading list of four books, theses, or major articles in Musicology and Ethnomusicology assigned by the Musicology and Ethnomusicology faculty before the student has completed approximately eight hours of work. The selection of readings will be tailored to each student. The examination will be administered by all tenure-track, tenured, and interested full-time adjunct faculty in Musicology and Ethnomusicology, after the student has completed approximately 24 hours of coursework toward the degree. The exam may be scheduled as early as the final semester of academic coursework but must be completed no later than one semester prior to the thesis defense. If the student fails the examination, it may be repeated once, during the following semester or later, with the permission of the committee members and the Coordinator of Graduate Studies.

COMPOSITION MAJOR
Composition 5020 ............................................................... 8-9
Thesis, MUTH 5980 ............................................................... 4
Recital of Compositions, GCRE 5051 ....................................... 1
Bibliography and Research in Music, Music 5112 ....................... 2
Music History/Literature ........................................................ 6
Music Theory* ........................................................................ 6
Music Ensembles (2 semesters) .............................................. 2
Music Electives ..................................................................... 2-3
Total Hours 32
* Excluding MUTH 5812 and 5822.

MUSIC THEORY MAJOR
Music Theory* (selected from theory courses numbered 4000 and above) ........................................... 8-9
Thesis, MUTH 5980 ............................................................... 4
Bibliography and Research in Music, MUS 5112 ....................... 2
Music History/Literature ........................................................ 6
Composition (2 semesters) ..................................................... 4
Music Electives ..................................................................... 7-8
Total Hours 32

Master of Music Education
Research in Music Ed., MUED 5212 ........................................... 2
Psych. Found. of Music Ed., MUED 6022 ................................. 2
Sociol. Found. of Music Ed., MUED 6032 ................................. 2
Electives in Music Education.................................................... 4
Music History/Literature .......................................................... 6
Music Theory* ........................................................................ 6
Applied Music (5010 level)* ..................................................... 4
Music Electives* ..................................................................... 6
Total Hours 32
* Excluding MUTH 5812 and 5822.
* Students enrolled in 1051M, Kodály Concept, are required to have two hours rather than four hours of applied music at the 5010 level.
† May be chosen from Music Education, Applied Music, Music History/Literature, Music Theory, Composition, Music Technique, Education, Thesis or Recital.

Students enrolled in the M.M.Ed. degree may select one of the following emphases within the program. Excepted as noted below, all requirements pertaining to the admission, retention and graduation of students in the Master of Music Education degree apply to these emphases:

EMPHASES IN VOCAL/GENERAL
Designed for music teachers interested in developing their skills in vocal music or general music education. The course sequence consists of six hours of electives chosen from those listed above and/or including electives in vocal music.

EMPHASIS IN KODÁLY CONCEPT
Designed for music teachers seeking specialized study in Kodály methodology. This twelve-hour sequence includes the following courses:
Kodály Concept I, MUED 5533 ................................................. 3
Kodály Concept II, MUED 5563 .............................................. 3
Kodály Concept III, MUED 5573 .............................................. 3
Kodály-related electives.......................................................... 3
Two hours rather than four hours of applied study are required for the M.M.Ed. Kodály Emphasis.

EMPHASIS IN CHORAL CONDUCTING
Designed for junior and senior high school choral directors interested in developing their skills in choral conducting and choral repertoire. The course sequence consists of six hours of electives in choral music/conducting.

EMPHASIS IN INSTRUMENTAL CONDUCTING
Designed for band and orchestra directors in the public schools. The course sequence consists of six hours of electives in instrumental music/conducting.

EMPHASIS IN SECONDARY INSTRUMENTS
Designed for instrumental music teachers who need more preparation in secondary instrument study. The course sequence consists of six hours of electives in secondary instrument study. Study in secondary instruments may be permitted only if the student demonstrates satisfactory competence in the principal instrument.

EMPHASIS IN PIANO PEDAGOGY
Designed for piano teachers seeking specialized preparation in piano teaching. The ten-hour sequence includes the following courses:
Piano Pedagogy I and II, MUED 5612 and 5622 ......................... 4
Electives in music, music education, and/or piano pedagogy ........ 6
Doctoral Degrees

The Doctor of Musical Arts (D.M.A.) degree is awarded upon completion of an approved program of study in performance or instrumental conducting. The objectives of the program include the development of the artist-teacher and musician-scholar for professional careers in higher education.

The Doctor of Philosophy (Ph.D.) degree in music education is awarded upon completion of an approved program encompassing study in music education, music history, music theory, and applied music. The objective of the program is to prepare the musician-scholar-teacher to be a person who displays a high level of mastery in teaching and musicianship and contributes to the solution of professional problems through scholarly research and publication.

The D.M.A. and Ph.D. degrees signify a comprehensive knowledge of the field of Western music with particular emphasis in the area of concentration. The programs require the completion of an approved program of study; satisfactory completion of a comprehensive General Examination, which is both written and oral; and the preparation and defense of a dissertation or research document demonstrating high standards of scholarship and contributing significantly to existing knowledge.

ADMISSION

To be admitted in full standing to the Graduate College and the School of Music for study leading to the D.M.A. or Ph.D. degrees, the applicant must hold a master’s degree in music or music education (or the equivalent) from an accredited college, university, or comparable institution; present a grade point average of at least 3.00 for all previous work; submit a completed application for graduate admission with official transcripts of all college work to the Admissions Office of the University; submit a completed personal data form, copies of all transcripts, and three letters of recommendation to the School of Music's Graduate Studies Office; submit a double-spaced typed paper of five pages or more that illustrates the applicant’s best writing and research skills (a term paper completed as part of master’s level work is sufficient, or the student may submit a research paper, a critical analysis, or an article suitable for publication); and demonstrate competence and give evidence of significant achievement and experience in the proposed major field (tape recording or live audition and other supporting data). Applicants with a grade point average of 2.75 to 3.0 may be able to qualify for conditional admission provided they show evidence of strong potential for professional success.

All international students (whose native language is not English) must present evidence of proficiency in the English language prior to being considered for admission to a graduate degree program. Please consult the Admissions section of this catalog for information on the various ways a graduate applicant may satisfy the English proficiency requirement.

PRELIMINARY EXAMINATIONS

Student academic and musical abilities are assessed by means of the Preliminary Examinations, which are prepared, administered, and evaluated by the School of Music faculty. The Preliminary Examinations, as appropriate, include written tests in aural perception and sight singing, music theory, and music history/literature; performance in the student’s principal performing medium; piano performance; and piano sight reading. The examinations are administered during the week prior to the first day of class at the beginning of each semester. Results are used by the student and adviser in planning an appropriate program of study.

The student’s performance on these examinations has no effect on his/her admission status as a doctoral student. All Preliminary Exams must be satisfactorily completed by the beginning of the third semester of enrollment.

PROGRAM ADVISER AND MAJOR PROFESSOR

At the time of admission, the student is assigned to a faculty member who serves as program adviser. The program adviser is responsible for advising the student on all matters pertaining to the program of study, including the selection of courses.

COMMITTEE CHAIR

A faculty member who teaches in the student’s major area of study (applied music, composition or conducting) serves as the Doctoral Committee Chair since he or she possesses expertise in the research document topic. The Committee Chair also oversees preparation and evaluation of recitals, guides research for the document, and serves as Chair of the final oral examination.

In those instances where the faculty member in the student’s major area of study does not hold the appropriate graduate faculty ranking, that person may serve as Co-Chair of the Doctoral Advisory Committee with a faculty member who does hold the appropriate graduate faculty ranking.

DOCTORAL ADVISORY COMMITTEE

Each student is counseled by an Advisory Committee comprised of five members of the graduate faculty. As soon as it is practical, the advisory committee is selected jointly by the student and program adviser. The student contacts each member of the prospective committee to secure their willingness to serve on the committee, and, since this usually occurs before the Advisory Conference Report is completed, the student obtains the signature of each member on the School of Music Doctoral Advisory Committee form. The committee must include two professors representing the major field of study, a professor representing music history/literature, a professor representing music theory, and a professor from outside of the School of Music. The program adviser will serve as a member of the committee only when he or she represents one of the areas to be tested on the general examination. The committee approves recital programs, evaluates the recitals, conducts the general examination, supervises the preparation of the document, and administers the final oral examination. At the document stage, the advisory committee may be reconstituted to provide additional expertise appropriate to the document. Any changes in membership of the advisory committee must receive approval by the retiring, continuing, and new members of the committee, the Coordinator of Graduate Studies in Music, and the Dean of the Graduate College. Please refer to the Graduate College Bulletin or website for more information.

ADVISORY CONFERENCE REPORT

The Advisory Conference Report affords the opportunity for a thorough review of previous study, professional interests and tentative matriculation plans. It is normally prepared jointly by the program adviser and student when the latter has earned at least 12, but not more than 30 doctoral credits. It is then circulated to all advisory committee members for approval and/or recommendations. The report specifies the requirements for the completion of the degree and thus constitutes an agreement between the student, advisory committee, and Graduate College. It must be submitted to and accepted by the Graduate College through the Graduate Music Office prior to attempting the General Examination. Subsequent changes in the content of the report can be made only with the approval of the program adviser, advisory committee, Coordinator of Graduate Studies in Music, and the Dean of the Graduate College.

RESIDENCY REQUIREMENTS

The student must be in residence as a full time student for two consecutive regular semesters (fall/spring or spring/fall). A minimum of nine hours of approved coursework and/or approved research must be completed each semester of the year in residence (six hours if the student is appointed as a .50 FTE graduate assistant). No employment in excess of that normally expected of graduate assistants should be accepted by the student.

LANGUAGE/RESEARCH REQUIREMENT

D.M.A. students majoring in voice must satisfactorily complete Italian 1103, 1203, French 1115, and German 1115; or the equivalent at another college or university, or successfully complete of appropriate placement examinations administered by the Department of Modern Languages, Literatures and Linguistics.

D.M.A. choral conducting students will be expected to demonstrate facility in pronouncing and translating German, French and Latin. This test will be administered at the time of matriculation. Each student will be given approximately one day to prepare a reading (in the original language) and
a translation in English of three choral texts. Both the reading and the translation will be delivered orally before the Director of Choral Activities and a member of the voice faculty. This examination is meant to be more a test of pronunciation skill than of translating ability. Unsatisfactory performance on this examination will necessitate either satisfactory completion of appropriate coursework or reexamination.

Knowledge of one or more foreign languages may be required of other students where such knowledge is essential for research for the document or dissertation. Research tool courses (one for D.M.A. and two for Ph.D.) are required in lieu of a foreign language. The research tool requirement is in addition to the 90 hours of coursework leading to the completion of the degree and must be completed prior to the General Examination.

GENERAL EXAMINATION
The General Examination is designed to evaluate the student’s ability to integrate knowledge, apply theoretical concepts, demonstrate skills and draw conclusions. Although it is composed of many parts, the examination is regarded as one entity and is evaluated as such. It normally covers coursework completed for both the master’s and doctoral degrees as well as general musical knowledge normally acquired through independent study and professional experience. It focuses on the major field of concentration, music history/literature, music theory, musical styles, and a minor or related area if one has been developed.

The General Examination includes both written and oral components and is normally scheduled when the student has completed most, if not all, of the coursework. The examination must be completed no less than seven months before receiving the degree. The General Examination is administered once each term at specified times.

Before taking the General Examination, the student must have removed deficiencies and demonstrated competence in research. Ordinarily, demonstration of competence in research entails successful completion of Music 5112 (DMA) or MUED 5212 and MUED 6222 or 6242 (Ph.D.). The student must receive the approval of the Advisory Committee and the Graduate College to take the examination.

Degree candidacy is attained by satisfactory completion of the General Examination. If the student fails the examination, it may be repeated once only, during the following semester or later, with the permission of the Advisory Committee.

Dissertation or Document
A dissertation (Ph.D.) or document (D.M.A.) is required of each candidate. The manuscript is expected to demonstrate high standards of scholarship and contribute significantly to existing knowledge. Students should begin thinking about a topic early during the coursework so they may be ready to formally present the topic proposal as soon as the general examination has been passed. Presentation of a topic prior to passing the general examination requires special permission from all members of the advisory committee.

(Special Note on the DMA Document: Although the DMA document is more limited in scope than a dissertation, it will demonstrate high standards of scholarship and contribute to existing knowledge. Where performance is the major field, the document will normally be concerned with such areas as performance practices, human physiology, acoustics, psychology, aesthetics, teaching methods and materials, translations of major vocal works, the editing of early, lesser-known compositions, analyses of important musical works, and biographies. For composition majors the final project will comprise one or more original major works. An accompanying written document may be in a related field. Where conducting is the major field, the document will be concerned with such areas as performance practices, teaching methods and materials, the editing of early music, aesthetics, or psychology.)

PROPOSAL
Once a potential topic has been identified, a written proposal is prepared under the guidance of the major professor and other members of the Advisory Committee. The proposal of a DMA document will normally include an introduction, a discourse on the nature and importance of the topic, a detailed outline (chapter by chapter) of the projected document, and a substantive bibliography of sources pertaining to the topic. The proposal of a Ph.D. Dissertation should include an introductory section, a clearly defined statement of the purpose and limitations of the project, a statement about the need and importance of the proposed research, a review of related literature, a discussion of methods and procedures to be employed in completing the project, a detailed outline of the projected dissertation, and a substantive bibliography of sources pertaining to the topic. The written proposal must receive the approval of the candidate’s Advisory Committee.

ENROLLING IN DOCUMENT/DISSERTATION HOURS
Permission to enroll in MUS 6880 (Doctor of Musical Arts Project) or MUED 6980 (Research for Ph.D. Dissertation) may be granted during any enrollment period in which serious work on the document/dissertation proposal is undertaken. Following the initial enrollment in MUS 6880/MUED 6980, a doctoral student must maintain continuous enrollment during each regular semester (fall/spring) in at least two hours of MUS 6880/MUED 6980 until the requirements for the degree have been completed or degree candidacy is discontinued. See the Graduate College Bulletin or website for further information about the continuous enrollment requirement.

WRITING THE DISSERTATION/DOCUMENT
During the research and writing of the document, the candidate is advised to consult regularly with the major professor and from time to time with the other members of the Advisory Committee. The major professor bears the major responsibility for guiding the research efforts of the doctoral candidate and asserts strong supervision over the project to insure exhaustive research of the topic, a thorough and complete report of the findings, a logical organization of the paper, correct grammar, proper spelling, acceptable writing style and appropriate format. Before other members of the Advisory Committee receive the document/dissertation for review (either in parts or whole), the paper should be at a stage of progress and level of scholarship suitable for critical examination.

THE FINAL ORAL EXAMINATION
All Graduate College directives and deadlines must be carefully observed in the preparation of the reading copy and final copy of the document/dissertation, the scheduling of the Final Oral Examination, and the eventual deposition of the document/dissertation in Bizzell Library. Each student should follow the “Graduate College Guidelines Regarding the Dissertation and the Final Oral Examination.” Copies are available in the office of the Graduate College or on their website [http://gradweb.ou.edu](http://gradweb.ou.edu).

One month prior to the proposed Final Oral Examination date, the candidate must present a typed copy of the document/dissertation to all members of the advisory committee for critical examination and comment. At least five members of the committee must read the document/dissertation and accept or reject it. If the document receives tentative acceptance from the committee and the indicated corrections and/or revisions are minimal, then the candidate may begin preparation of the final draft of the document/dissertation.
On or before the Graduate College reading copy deadline, the candidate must present to the Dean of the Graduate College a typewritten, unbound copy of the complete document/dissertation and abstract (the latter not exceeding 350 words) in order to secure permission to take the Final Oral Examination.

The Final Oral Examination may take place on or before the published deadline. The student must contact each member of the Advisory Committee prior to setting and confirming the date and time of the Final Oral Examination. This examination is primarily a defense of the document/dissertation, although other areas may be covered if the committee deems it appropriate. The Final Oral Examination is open to the public.

**USE OF HUMAN OR ANIMAL SUBJECTS**

Approval for research involving the use of human subjects, including the administration of all surveys or interviews, must be obtained through the Institutional Review Board. If a student does not receive this approval in advance, the student’s research may be jeopardized and they could be restricted from using any information gathered prior to approval of the protocol in the document. For further information about the approval process, or to obtain application forms, contact the Office of Research Administration at (405) 325-4757 or [http://research.ou.edu](http://research.ou.edu).

**TRANSFER CREDIT**

A master’s degree or the equivalent may be transferred to doctoral programs up to a maximum of 32 semester hours. Credit earned beyond the master’s level may be applied to degree requirements in accordance with policy established by the Graduate College and the Graduate Studies Committee in Music.

**TIME LIMIT**

All work for the Doctor of Musical Arts or Doctor of Philosophy in music education degrees, including the Final Oral Examination, must be completed within nine years from the date of enrollment in the first coursework to be applied to the program. A doctoral student who enters the University of Oklahoma with a master’s degree must take the General Examination within four calendar years from the date of admission to the program. He/she is expected to complete all degree requirements within five years after passing the General Examination.

**Additional Requirements for the D.M.A. Degree**

**PERFORMANCE MAJORS**

Performance majors must present an on-campus audition of one hour in the principal applied music area. The audition should feature works of contrasting styles, chosen to demonstrate musicianship and technical proficiency. Voice and piano majors must present the entire audition from memory. Organ, string, wind and percussion majors must perform a portion of the audition from memory. In addition, the applicant should submit printed programs of concerts and/or recitals played or sung.

If an applicant has fulfilled all application requirements except for the audition and is prevented by special circumstances from traveling to Norman to perform the audition, he/she may be considered, at the discretion of the audition committee, for conditional admission to the degree program by submitting a recent videotaped recording of an ensemble rehearsal. Applicants conditionally accepted on the basis of the video recorded audition must present a satisfactory, 45-minute conducting audition during the first semester of study in order to qualify for admission in full standing and continue in the program.

**COMPOSITION MAJORS**

Applicants seeking admission in composition should present in an interview before a faculty committee a one-hour audition of at least three original works (recorded or live). Scores of the works presented in the one-hour audition recital, as well as a list of all original works and their performances, should also be submitted.

If an applicant has fulfilled all application requirements except for the live presentation and interview and is prevented by special circumstances from traveling to Norman for the presentation and interview, he/she may be considered, at the discretion of the composition faculty, for conditional admission to the degree program by submitting two scores of recent works with accompanying performance recordings (if available). Applicants thus conditionally accepted must complete an interview with the composition faculty and present a one-hour audition recital (live or recorded) during the first semester of study in order to qualify for admission in full standing and continue in the program.

**CONDUCTING MAJORS**

Applicants seeking admission in choral or instrumental (wind track or orchestral track) conducting must present a 45-minute conducting audition with a University ensemble. The audition consists of a 25-minute rehearsal of a work chosen and prepared by the applicant and a 20-minute rehearsal of a work chosen by the director of choral or instrumental activities and conducted at sight by the applicant.

Prospective students must also submit a videotape of a recent ensemble performance and/or rehearsal conducted by the applicant and a detailed description of the applicant’s program (ensemble size, ability of performers, rehearsal and performance schedule, repertoire, etc.).

If an applicant has fulfilled all application requirements except for the audition and is prevented by special circumstances from traveling to Norman to perform the audition, he/she may be considered, at the discretion of the audition committee, for conditional admission to the degree program by submitting a recent videotaped recording of an ensemble rehearsal. Applicants conditionally accepted on the basis of the recorded audition must present a satisfactory, 45-minute conducting audition during the first semester of study in order to qualify for admission in full standing and continue in the program.

**SPECIAL NOTE: D.M.A. auditions are scheduled throughout the academic year at times mutually convenient to both faculty and students. Students should consult the Coordinator of Graduate Studies in Music or the applied music faculty member in their field to schedule this audition. The student should prepare a vita describing his/her professional preparation and experience and a list of repertoire performed or composed. The copies should be made for distribution to the faculty attending the audition.**

**Special Note to International Applicants:** The University offers a Center for English as a Second Language (CESL) for students who are otherwise admissible to the University but do not meet the English proficiency requirement. International applicants to the DMA who fall into this category, who are applying from a foreign country, and who have fulfilled all application requirements except for the audition may submit an appropriate 30-minute recorded audition in order to be considered for conditional admission to the DMA program. International applicants thus conditionally admitted must then complete the full audition requirements during their first semester of study in CESL. Please note that admission to the CESL program does not guarantee full admission to the DMA degree.

**Course Requirements**

The program requires a minimum of 90 hours of approved graduate study distributed in the following manner:

**MAJOR IN PERFORMANCE**

<table>
<thead>
<tr>
<th>Major Applied Area</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Doctoral Projects</strong></td>
<td></td>
</tr>
<tr>
<td>Recital Performances</td>
<td>6</td>
</tr>
<tr>
<td>Written Document</td>
<td>6</td>
</tr>
<tr>
<td>Music History/Literature</td>
<td>9</td>
</tr>
<tr>
<td>Music Theory</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>13</td>
</tr>
<tr>
<td>Master’s Degree or Equivalent (maximum)</td>
<td>52</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>90</td>
</tr>
</tbody>
</table>

*No more than 16 semester hours of credit in the major field may be counted toward degree requirements.*
MAJOR IN PIANO PERFORMANCE WITH AN EMPHASIS IN PIANO PEDAGOGY

Major Applied Area: ..............................16

Doctoral Projects
Recital Performances (2) .........................4
Doctoral Workshop in Piano Teaching ..........2
Written Document ..................................6
Music History/Literature ..........................9
Music Theory‡ ......................................8
Electives in Piano Pedagogy (suggested) ....13
Piano Pedagogy I and II ..........................2-4
Piano Literature I and II ............................3-6
Current Trends in Piano Pedagogy .......... ...2
Internship in Piano Teaching ....................2
Teaching Intermediate & Advanced Piano Students ....2
Advanced Group Piano ...........................2
Ensemble Music in Piano Teaching ............2
Master’s Degree or Equivalent (maximum) ....32

Total Hours ........................................90

*No more than 16 semester hours of credit in the major field may be counted toward degree requirements.

*Practicum I and II, MIDI I and II, and Jazz Improvisation count only as general electives on graduate music degree programs and not as theory electives.

NOTE: MUS 5112, Bibliography and Research in Music, a required research tool course for all DMA students, is not included in the 90-hour total.

MAJOR IN COMPOSITION

Composition‡ ......................................13
Advanced Orchestration‡ .........................3

Doctoral Projects
Recital Performances (2) .........................4
Written Document ..................................8
Music History/Literature ..........................9
Music Theory‡ ......................................6
Ensemble (2 semesters) ..........................2
Electives‡ ...........................................13
Master’s Degree or Equivalent (maximum) ....32

Total Hours ........................................90

*No more than 16 semester hours of credit in the major field may be counted toward degree requirements.

*Practicum I and II, MIDI I and II, and Jazz Improvisation count only as general electives on graduate music degree programs and not as theory electives.

*Credit may be earned outside the field of music with the approval of the Advisory Committee.

NOTE: MUS 5112, Bibliography and Research in Music, a required research tool course for all DMA students, is not included in the 90-hour total.

MAJOR IN CHORAL CONDUCTING

Choral Conducting‡ ...............................8
Choral Score Study‡ ...............................8

Doctoral Projects
Recital Performances ..............................6
Written Document ..................................6
Music History/Literature ..........................9
Music Theory‡ ......................................8
Electives...............................................13
Master’s degree or Equivalent (maximum) ....32

Total Hours ........................................90

*No more than 16 semester hours of credit in the major field may be counted toward degree requirements.

*Practicum I and II, MIDI I and II, and Jazz Improvisation count only as general electives on graduate music degree programs and not as theory electives.

NOTE: MUS 5112, Bibliography and Research in Music, a required research tool course for all DMA students, is not included in the 90-hour total.

MAJOR IN INSTRUMENTAL CONDUCTING

(Wind or Orchestral Track)

Instrumental Conducting‡ ......................8
Instrumental Score Study‡ ......................8

Doctoral Projects
Recital Performances ..............................6
Written Document ..................................6
Music History/Literature ..........................9
Music Theory‡ ......................................8
Electives ...........................................13
Master’s degree or Equivalent (maximum) ....32

Total Hours ........................................90

*No more than 16 semester hours of credit in the major field may be counted toward degree requirements.

*Practicum I and II, MIDI I and II, and Jazz Improvisation count only as general electives on graduate music degree programs and not as theory electives.

NOTE: MUS 5112, Bibliography and Research in Music, a required research tool course for all DMA students, is not included in the 90-hour total.

Public Performance Requirements

Major in Performance. A minimum of three public performances is required. At least two performances must be full-length solo recitals. The remaining performance may be either a lecture recital or chamber music recital. A student who has an opportunity to perform a concerto with orchestra or appear in a major operatic role may apply for evaluation of such performance as a portion of the recital requirements. No more than one of the three recitals may be replaced by concerto or operatic performances. Such a substitution must be approved in advance by the student’s Advisory Committee. All recital music must be memorized by performers majoring in piano and voice. For performers on the organ, wind, string, and percussion instruments, at least a portion of the recital repertoire must be memorized.

Emphasis in Piano Pedagogy. A student in piano pedagogy must demonstrate competence both as a performer and as a teacher. To this end, three public performances are required: 1) a full-length solo recital featuring works from contrasting style periods; 2) a lecture recital (which may be pedagogical in nature) or a chamber music recital in which the piano plays an important musical role, or a second solo recital; and 3) a public workshop for piano teachers concentrating on teaching techniques and materials. The workshop must be at least five hours in length. It may be presented outside of Norman provided the major professor is in attendance and the workshop is videotaped.

Major in Composition. A student in composition must demonstrate competence as a practitioner of the musical art by presenting two recitals. One recital is a program of original music with commentary (lecture recital). The second recital requirement may be satisfied through the presentation of a single recital of original music or the equivalent realized through several performances of original compositions presented during regular School of Music concerts or recital programs. As appropriate, the student may appear as a soloist, member of a chamber ensemble, or as a conductor of a major performance organization.

A student who has had performances of original compositions during regular School of Music concerts or off-campus performances may apply for evaluation of such performances as a portion of their recital requirements.

Major in Choral Conducting. Three public performances are required. Performing groups may consist of a school or college choir (including University of Oklahoma choral groups, directly under the supervision of the student), a church or community choral group, or a professional choral ensemble. The first recital should be a performance of approximately 30 minutes involving supervised score preparation and appropriate research. The second should be a performance of approximately one hour involving works representing at least three historical style periods and two foreign languages. The third recital (also one hour in length) should include the performance of a larger work, preferably related to the written document. A cappella works, as well as compositions accompanied by an instrumental ensemble, must be represented within the total recital requirement.
Major in Instrumental Conducting. Three public performances are required. At least two performances must be full-length recitals. The remaining performance may be a lecture recital related or not related to the document topic. Recital literature may be selected from the large and/or small instrumental repertoire. Chamber music selections must include groups of eight or more musicians, not including the conductor. Performing groups may consist of a college ensemble (including University of Oklahoma groups under the supervision of the student), or an ensemble of community and/or professional musicians.

Additional Requirements for the Ph.D. Degree

ADMISSION

In addition to the general admission requirements given earlier, prospective Ph.D. students must give evidence of successful completion of two years of full-time music teaching experience at the elementary, secondary, and/or college level, or the equivalent. Second, applicants must submit a recent video tape recording of performing groups, classroom or private instruction, or ensemble rehearsal which demonstrates teaching effectiveness. Applicants may request an on-site observation visit by music faculty in lieu of a recording. Applicants must bear all costs. Third, applicants should submit a detailed description of their teaching and other professional experiences.

Course Requirements

The program requires a minimum of 93 hours of approved graduate study distributed in the following manner:

- Foundations of Music Education .......................................................... 12
- MUED 6012, Phil. Found. of Music Educ. ...................................... 2
- MUED 6022, Psych. Found. of Music Educ. .............................. 2
- MUED 6032, Sociol. Found. of Music Educ. ............................ 2
- Electives in Music Education* .................................................................. 6
- Research in Music Education .......................................................... 14

Research Courses
- MUED 5212, Research in Music Education, and ................... 2
- MUED 6242, Quantitative Research in Music Educ., or ......... 2
- MUED 6222, Qualitative Research in Music Education .......... 2
- Dissertation .......................................................................................... 10
- Degree Emphasis (electives)† ................................................................ 20
- Professional Support Areas ................................................................. 15
- Music History ..................................................................................... 6
- Music Theory (excluding 5812, 5822)‡ .......................................... 6
- Elective in MUHI or MUTH .............................................................. 3
- Master’s Degree or Equivalent (Maximum) ............................... 32
- Total Hours ........................................................................................ 93

*For piano pedagogy emphasis, MUED 5612 and 5622, Piano Pedagogy I and II are required.

†Electives may be used to expand competency in music education, music history/literature, and/or music theory, or develop a related area of study in applied music, piano pedagogy, composition, conducting, music theater, education, psychology, or some other appropriate field which focuses on the career needs of the student.

‡Practicum I and II, MIDI I and II, and Jazz Improvisation count only as general electives on graduate music degree programs and not as theory electives. Students completing the Ph.D. in Music Education must take from 12-20 semester hours of coursework in an area of concentration as approved by the doctoral Advisory Committee.

Areas of Emphasis include:

EMPHASIS IN THE KODÁLY CONCEPT

Students wishing to complete an emphasis in the Kodály Concept must enroll in 14 semester hours of coursework as specified below. This 14-hour component will comprise part of the block of 20 hours of electives in the degree program: MUED 5553, Kodály Concept I; MUED 5563, Kodály Concept II; MUED 5573, Kodály Concept III; MUED 5582, Folk Song Research; and a Kodály-related elective.

EMPHASIS IN CHORAL CONDUCTING

Students wishing to complete an emphasis in Choral Conducting must enroll in 12 semester hours of coursework as specified below. This 12-hour component will comprise part of the block of 20 hours of electives in the degree program: MUTE 6252, Choral Conducting (4); MUTE 6152, Choral Score Studies (4); MUTE 5160, University Chorale (1); and MUED 5990, Special Studies in Choral Methods (3).

EMPHASIS IN INSTRUMENTAL CONDUCTING

Students wishing to complete an emphasis in Instrumental Conducting must enroll in 12 semester hours of coursework as specified below. This 12-hour component will comprise part of the block of 20 semester hours of electives in the degree program: MUTE 6262, Instrumental Conducting (4); MUTE 6162, Instrumental Score Studies (4); MUTE 5130, Band, or MUTE 5140, Orchestras (2); and RPHD 6022, Recital, or approved elective in instrumental music (2).

EMPHASIS IN PIANO PEDAGOGY

Students wishing to complete an emphasis in piano pedagogy should complete the 20-hour block with electives in music, music education, and piano. Following are some suggested courses: Piano 6010 (4-8); MULI 5423 and 5433, Keyboard Literature (3-6); MUTE 5612, Advanced Group Piano (2); MUTE 5632, Current Trends in Piano Pedagogy (2); MUTE 5642, Internship in Piano Teaching (2); MUTE 5662, Teaching Intermediate & Advanced Piano Students (2); MUTE 5672, Ensemble Music in Piano Teaching; RPHD 6022, Ph.D. Recital (2); MUTE 6652, Doctoral Workshop in Piano Pedagogy; Electives in music history, music literature, music theory, music technique, or electives outside the School of Music.

A. Max Weitzenhoffer
Department of Musical Theatre

Gregory D. Kunesh, Chair
Carpenter Hall, Room 203
Norman, OK 73019-4091
Phone: (405) 325-0538
Fax: (405) 325-7663

Faculty Roster

Regents Professor Kunesh; Associate Professors Christman, Cramer; Assistant Professor Cook; Visiting Instructor Lesney.

Degrees Offered

- Bachelor of Fine Arts in Musical Theatre

General Information

The A. Max Weitzenhoffer Musical Theatre Department strives to prepare students for professional careers in musical theatre. Designed as an interdisciplinary program, the Department offers a strong educational balance between drama, music and dance brought together in musical theatre performance classes and productions. The Department works cooperatively with the Schools of Dance, Drama and Music in both classroom instruction and production opportunities. As a pre-professional and comprehensive training component within a major university, the Department is committed to the student acquiring strong artistic training along with a solid liberal arts academic background. The Department is dedicated to educating artists for the future.

A. Max Weitzenhoffer Department of Musical Theatre
The A. Max Weitzenhoffer Musical Theatre Department is committed to never having more than fifty students in the program at any given time. The student/faculty ratio in the Department assures the student of individual attention, career guidance, quality instruction, and performance opportunities during their undergraduate education.

**STUDENT ORGANIZATIONS**
- Drama and Dance Association (DADA)

**Programs for Excellence**
The A. Max Weitzenhoffer Musical Theatre Department is one of the very few comprehensive and balanced musical theatre programs offered at a publicly supported university. The department is an interdisciplinary degree program working cooperatively with the College of Fine Arts’ Schools of Dance, Drama, and Music in addition to offering courses within the Department. This performance-based degree is involved with and supported by a multitude of diverse theatrical and performance opportunities ranging from fully produced musicals, dramas, opera, and dance cabarets. These diverse theatrical opportunities provide the student with a wide variety of experiences in which they can put classroom skills into practice.

A special feature of the A. Max Weitzenhoffer Musical Theatre Department is its commitment to the development of new properties through its unique partnering arrangements with recognized producers, regional theatres and creative artists who are leaders in the professional theatre world. Max Weitzenhoffer, the Department producing director and a two-time Tony Award Winner, uses his contacts to bring in properties either for premiere performances or as developmental workshops. In recent years the Department worked on such projects as “Jack” with the Shubert organization, “The Great Unknown” with Dodger productions out of New York and “Lily & Lily” with Goodspeed Opera House. This networking has led to numerous professional performance opportunities for our students while pursuing their undergraduate degree.

During the summer, several faculty members work professionally in a variety of musical theatre venues. In addition, the majority of the students in the department secure summer employment and performance contracts with professional theatres and entertainment venues throughout the country.

**Special Facilities and Programs**
The A. Max Weitzenhoffer Musical Theatre Department’s administrative and faculty offices are located in Carpenter Hall. The Musical Theatre Dance studio and Cabaret Classroom are also located here, along with all voice studios. The Fine Arts Center contains the 600-seat Rupel Jones Theatre and the 200-seat Weitzenhoffer Theatre as well as classrooms and studios used by drama, dance, and musical theatre. The Catlett Music Center houses the Paul F. Sharp Concert Hall, the Morris R. Pittman Recital Hall, the C. Grayce B. Kerr Gothic Hall, as well as the FACTS Box Office for all College of Fine Arts productions and concerts. In addition, Catlett houses many of the School of Music’s classrooms and rehearsal halls which include state-of-the-art technology. The historic Holmberg Hall is used for opera productions, faculty studios and the School of Dance offices.

The A. Max Weitzenhoffer Musical Theatre Department regularly schedules at least one major production each semester. Many of our students also perform in the numerous main-stage productions as well as the student-run Lab Theatre. An active Cabaret group performs throughout the year for many organizations on and off campus who are seeking entertainment for their events.

**Scholarship Information**
A number of scholarships, awards and tuition waivers are available to qualified students each academic year. Applications for scholarships and waivers are available through the A. Max Weitzenhoffer Musical Theatre Department office in Carpenter Hall. Initial scholarship considerations and offers are made following Admission Auditions in the spring. Scholarships and waiver renewals are automatically considered each spring. Additional non-departmental scholarships and financial aid are available through the University of Oklahoma office of Financial Aid Services. These applications must be made separately, but often with departmental assistance. The following are available through the Department to qualified students:
- Calvert Scholarships
- Ben Barnett Scholarships
- Theatre Guild Scholarships
- A. Max Weitzenhoffer Scholarships
- Partial Resident Fee Waivers
- Partial Non-Resident Fee Waivers

For specific information and deadlines, contact the A. Max Weitzenhoffer Department of Musical Theatre at (405) 325-0538.

**Undergraduate Study**

**ADMISSION**
The A. Max Weitzenhoffer Department of Musical Theatre follows the basic admission requirements of the University of Oklahoma for incoming freshman and transfer students. In addition, students wishing to major in musical theatre must audition and be officially accepted into the degree program before being allowed to enroll for classes in the program. Auditions may be scheduled by contacting the A. Max Weitzenhoffer Department of Musical Theatre. Admission to the College of Fine Arts requires completion of a minimum of 24 hours, a minimum 2.50 combined retention GPA, and a declared Fine Arts major.

**PROFICIENCY EVALUATION**

Review of student’s progress for continuation in the department will occur during the spring semesters of their freshman, sophomore, and junior years. Academic and artistic progress will be evaluated during this period accompanied by career counseling.

**Degree Requirements**
The A. Max Weitzenhoffer Department of Musical Theatre requires a minimum of 133 semester hours, including all musical theatre, drama, music, and general education requirements. A minimum of 40 hours must be completed at the upper-division level. A sophomore performance exam must be successfully completed for admission into upper-division drama and music courses. All musical theatre majors must maintain an OU retention and combined retention grade point average of at least 2.50, with a grade of C or better in all musical theatre, drama, dance, and music courses. Successful completion of a senior capstone experience is required. For additional graduation regulations, students should refer to that section in the general College of Fine Arts information. Students are advised each semester by the department faculty concerning enrollments, advancement toward degree and career options.

Students considering Musical Theatre as a major should contact the Department office (Room 203, Carpenter Hall) for curriculum requirements, admission guidelines, scheduled admission audition dates, scholarships and awards.

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The College of Geosciences is composed of academic and research units focused on Planet Earth. The Department of Geography, the School of Geology and Geophysics, and the School of Meteorology are the academic units in the college. Research units include the Center for the Analysis and Prediction of Storms, the Center for Spatial Analysis, the Cooperative Institute for Mesoscale Meteorological Studies, the Environmental Verification and Analysis Center, the Oklahoma Climatological Survey, the Sasaki Applied Meteorological Research Institute, and the Shell Crustal Imaging Facility. Related activities include the Oklahoma Geological Survey and Youngblood Energy Library. The College is a key participant in the Sarkeys Energy Center and a leader in the National Weather Center.

The College of Geosciences is the campus leader for basic research and education on energy, the environment, and humankind’s place within the Earth System. The faculty prepare students for leadership roles in industry, government, and academia, and carry out basic and applied research to understand, predict and, in some cases, control or exploit Earth’s dynamic processes and physical properties. The college is nationally recognized for its educational and research programs in petroleum and environmental geology, exploration and environmental geophysics, geochemistry, applied climatology, hydrology, atmospheric dynamics, mesoscale meteorology and severe storms, weather radar, atmospheric physics, geographic information systems, resource management, Native American and Hispanic studies, and remote sensing of Earth's atmosphere, surface and interior. Since the geosciences are inherently interdisciplinary and environmentally oriented, the college strongly encourages and promotes interaction with the basic sciences, mathematics, engineering, and the social sciences.
A degree in any of the geosciences is an excellent preparation for further professional study, such as law, public policy, education, urban and regional planning, or museum administration.

CAREER OPPORTUNITIES

Geography: Many geography students today contemplate careers using the rapidly expanding family of geotechniques, especially Geographical Information Systems and Remote Sensing. Careers that focus on these techniques straddle a wide array of occupations, including working for city, state, and federal agencies and working for private-sector enterprises whose business requires the optimal location and spatial analysis of facilities and markets. The family of geotechniques, however, can and should for most students be coupled with an understanding of the other branches of geography, physical and human. Thus equipped, students can work for both public- and private-sector organizations concerned with regional planning, environmental management, and the development of planning and environmental policy. Still other students, more broadly attracted to the integrating perspective of geography, choose to view the discipline as a central part of a liberal education that will take them to a professional career such as in law or public administration or to an academic or other professional career in teaching, research, and writing.

Geology and Geophysics: Graduates find employment within the oil, gas, mining, environmental, and water resources industries. Employment opportunities also exist at academic institutions, environmental firms, and both state and federal geological surveys. In response to societal demands, geologists and geophysicists search for new sources of energy, water, and other natural resources; endeavor to protect the quality of Earth's environment; seek to improve humankind's understanding of the geosphere; probe the depths of the Earth; and continue to explore the solar system.

Meteorology: Recipients of undergraduate degrees find employment in both government and private sectors. Within government, the National Weather Service and its parent organization, NOAA (National Oceanographic and Atmospheric Administration), have needs for weather forecasters and research assistants. The U.S. Armed Forces also have a large demand for meteorologists while many state and local water and environmental agencies also require weather expertise. Private sector companies have growing needs for weather information; examples include broadcast meteorology, consulting, aviation industry and, in general, companies which provide specific weather and climate information for their clients. Recipients of M.S. and Ph.D. degrees are most likely to become involved in research at federal laboratories or in government-sponsored programs at universities while some become faculty at the secondary school, college and university levels.

Programs for Academic Excellence

PARTICIPATION IN THE HONORS PROGRAM

A high percentage of eligible College of Geosciences undergraduate students participate in the University-wide Honors Program described elsewhere in this catalog. Specially designed Honors courses and seminars provide the Honors student with small classes and opportunities for interaction with the University’s best and brightest faculty members, both within the student’s major field of study and in other courses used to satisfy curricular requirements.

FIELD COURSES

To geoscientists, Planet Earth is a natural laboratory. Thus, it is important that students devote a portion of their academic careers to exploring and studying aspects of the Earth away from the OU campus. Field trips in geology and geography are offered in the central and western U.S. as well as a senior-level geology field camp in Colorado, and faculty members involve students in their active field research programs around the world. The central U.S. is a vast open-air laboratory for meteorology faculty and students who combine theoretical modeling with extensive field observation and measurement programs.

RESEARCH OPPORTUNITIES

Faculty-supervised research is an important component of the College of Geosciences graduate program. Most graduate students are supported financially through research assistantships funded by federal and private industry grants and contracts. Other graduate students are financially supported through teaching assistantships awarded by their academic unit. In either case, faculty-supervised student research leads to master’s theses and doctoral dissertations as part of the overall graduate degree requirements. This research is often published in scientific journals which may be useful in assisting graduates to obtain employment. Talented undergraduate students are encouraged to work with faculty on research projects. These student research projects can be an important component of the Honors Program and/or a source of part-time income and scholarship support. Such research participation provides the student with important experience in his or her discipline in addition to meeting normal academic requirements.

GEOSCIENCES WEEK

Geosciences Day has been a tradition at the University of Oklahoma for more than 60 years that has now grown into a week of activities which involve students, faculty, staff, high school students, and alumni allowing exposure to the scientific challenges of the College’s disciplines.

Special Facilities and Programs

THE SARKEYS ENERGY CENTER

All academic and research units of the College of Geosciences are housed in the Sarkeys Energy Center. The building is a 340,000 square foot, $50 million structure. The College of Geosciences and the offices and dry labs of its academic and research units are housed in the 15-story tower. Classrooms and wet laboratory facilities are located in the base of the building. This close proximity encourages cooperation and fosters interdisciplinary education and research efforts within the college.

This special cooperative relationship extends to other units housed in the Sarkeys Energy Center including the Youngblood Energy Library, the Oklahoma Geological Survey, and the College of Engineering's Schools of Petroleum and Geological Engineering, and Chemical Engineering and Materials Science.

The programmatic goals of the Sarkeys Energy Center are to foster educational and research programs in such areas as natural gas, energy and the environment, enhanced oil/gas recovery, and remote sensing-advanced computer visualization. The College of Geosciences academic and research units are deeply involved in each of these four themes.

THE NATIONAL WEATHER CENTER

The National Weather Center is a confederation of state and federal organizations which work together on educational, pure and applied research, and operational activities. The School of Meteorology, Department of Geography, the Cooperative Institute for Mesoscale Meteorological Studies, the Center for Analysis and Prediction of Storms, the Environmental Verification and Analysis Center, the Sasaki Applied Meteorology Research Institute, and the Oklahoma Climatological Survey, housed in the Sarkeys Energy Center Tower, are the University of Oklahoma components of the Weather Center. The federal agencies that make up the Weather Center include: the National Severe Storms Laboratory, the Storm Prediction Center, the National Weather Service Office (Oklahoma City), the WSR-88D (NEXRAD) Radar Operations Center, and the Warning Decision Training Branch, all located on the University of Oklahoma north campus. Taken together, the Weather Center offers a rich educational and research environment for students pursuing undergraduate and graduate study in meteorology, climate, hydrology, remote sensing, and computer applications.

SHELL CRUSTAL IMAGING FACILITY

This is a facility of the School of Geology and Geophysics and the College of Geosciences, and is associated with the Geosciences Computing Network (GCN).

The computing resources available to users are a mixture of Sun Microsystems Enterprise Servers connected to a lab containing six Sun
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Blade workstations. SCIF lab users have access to software from Hampson-Russell, Schlumberger GeoQuest, Landmark, and Paradigm Geophysical.

GEOSPATIAL AND IMAGE ANALYSIS LABORATORY

The Geospatial And Image Analysis (GAA) laboratory facilitates both research and teaching related to spatial data analysis, especially the design and application of Geographic Information Systems, the analysis of remotely sensed data and its integration with other spatial data types, and the statistical analysis of spatial data. The laboratory provides the opportunity for students to obtain “hands-on” experience in geospatial techniques in both Unix workstation and PC-based computational environments.

College Honor Roll

The College of Geosciences Honor Roll is compiled at the close of each fall and spring semester. It includes students who have completed at least 12 grade point hours and earned an average of 3.50 or higher during the semester.

Part-time students enrolled for both the fall and spring semesters of an academic year will be included on the spring semester honor roll provided that, as a result of combining the work completed during the fall and spring semesters, they earn at least 12 grade point hours with no withdrawals and an average of 3.50 or better.

Student Organizations

- Geosciences Student Leadership Council
- Sigma Gamma Epsilon (the honorary society for the Earth Sciences)
- The University of Oklahoma Geography Club
- Geography Graduate Student Organization
- Pick and Hammer Club
- Student Chapter of American Association of Petroleum Geologists
- Student Chapter of Society of Exploration Geophysicists
- Student Chapter of the American Meteorological Society
- Student Affairs Committee (Meteorology)

Scholarships and Financial Aid

Students entering the University are eligible to apply for any of the general scholarships awarded by the University Scholarship Committee. General scholarships are awarded on the basis of academic achievement and financial need. Scholarship and other forms of financial aid information is available from the Office of Financial Aid Services, University of Oklahoma, Norman, OK 73019.

In addition, scholarships are awarded to geosciences students by the individual schools or departments in the College of Geosciences. For additional information, please refer to the academic unit sections in the following pages.

Computing

The College of Geosciences is making a major commitment to integrate and exploit computer and network technology in its courses and programs. Geosciences students will access and use a rich variety of materials and educational experiences through local and Internet-based resources. While the University provides computer labs for student use, the College of Geosciences provides four computing labs for exclusive use by Geoscience majors. The College of Geosciences is home to the University of Oklahoma SuperComputing (OSCR-OU SuperComputing Center for Education and Research) center.

Undergraduate Study

ADMISSION TO THE UNIVERSITY

Students must be admitted to the University of Oklahoma before being admitted to the College of Geosciences.

First-year students and all other prospective geosciences students who have not yet met the requirements for admission to the College of Geosciences are admitted to University College. Inquiries concerning admission to the University and University College should be addressed to the Office of Admissions. Students are cautioned however, that the admission requirements for the College of Geosciences programs are more stringent than the requirements for admission to the University. New students considering majoring in any of the geosciences programs should, complete the following required high school preparatory work:

1. Mathematics—four years of college-preparatory mathematics.
2. Sciences—a year of physics, chemistry, biology and/or Earth sciences.
3. English—four years (including grammar and composition).
4. Foreign Language—two years (same language).

ADMISSION TO THE COLLEGE

Students will be admitted to the College of Geosciences once they declare a geosciences major and complete the following requirements:

1. Earn a minimum of 24 semester hours of college credit.
2. Earn a combined retention grade point average of at least 2.00.

Full admission to degree programs offered by the College of Geosciences is contingent upon successful completion of the following coursework with a grade of C or better, and submission of ACT scores or a similar acceptable test battery; English 1113 and 1213; Mathematics 1823 and 2423 for the Bachelor of Science or Mathematics 1743 for the Bachelor of Arts; Chemistry 1315 for the Bachelor of Science or Physics 2414 or 2514 for the Bachelor of Arts; and one course from either Geology 1114, Geography 1114, or Meteorology 1004.

Academic credit from any division of the University of Oklahoma—Norman campus, Health Sciences Center, OU-Tulsa, and Claremore, or Continuing Education—is considered resident credit at the University of Oklahoma. Grades and hours earned at any of these divisions are included in the OU retention and cumulative grade point averages for purposes of admission or readmission to the University, and to the individual colleges within the University.

STUDENT ADVISEMENT

Each student meets with a faculty adviser during enrollment periods and as necessary during the academic year. The dean’s office is staffed by an Assistant Dean and an academic counselor who are available for student support. Students may visit with the academic counselor in the Sarkeys Energy Center, Room 710 during normal working hours, or they can call (405) 325-3101.

Although the dean’s office and the school/department office check each student’s records, the responsibility for meeting graduation requirements lies with the student and not with the adviser, the school/department or the dean.

SCHOLASTIC REQUIREMENTS

1. A combined retention grade point average of at least 2.00 is required for admission, retention and graduation in any of the major programs in the College. Any student whose combined retention and/or OU retention grade point average falls below 2.00 is placed on enrollment contract. Students on enrollment agreement may be denied enrollment privileges following any semester in which satisfactory scholastic progress toward a 2.00 average has not been made. If a student is denied enrollment, he or she may not earn credit toward a degree until he or she is readmitted to the College.
2. Grade point deficiencies (as noted above) in a curriculum of the College of Geosciences must be made up through reenrollment in curriculum courses in which the student had a last-recorded grade of D or F. Should all D or F grades in curriculum courses be raised to a C or above, and the student still has grade point scholastic deficiencies, he/she may then enroll in noncurricular courses. For the freshman and sophomore years, any courses may be used; but, for the junior and senior years, the course must be numbered 2000 or above, unless the course so elected is approved as an elective in the last two years of his/her major school’s or department’s curriculum.

3. After a student has been reinstated in the University following an unsatisfactory scholastic record, he/she must apply to the Dean of the College of Geosciences for reinstatement in the college. The dean will determine whether to readmit the student and may prescribe the conditions for reinstatement in the college in accordance with the policies established by the faculty and the dean.

4. Any departure by a student from the curriculum requirements and scholastic rules must be approved by a petition and must not conflict with existing University regulations. A student submitting a petition must obtain the written recommendation of his/her adviser and submit it to his/her major school/department for faculty action.

5. The College of Geosciences requires comprehensive examinations to be given during the regular scheduled examination periods in all undergraduate courses excluding directed readings, pure laboratory courses and project-type courses and seminars. No member of the faculty is authorized to depart from this regulation or from the published examination schedule for either a class or an individual without prior approval. Special early examinations given to individual students or groups of students as substitutes for final examinations are prohibited. A student will not be expected to take more than two examinations in one day.

6. Full-time students may enroll in 12–19 hours of work. Enrollment in more than 19 credit hours is permitted only with the approval of the student’s adviser and the Dean of the College of Geosciences. Permission to carry more than 19 hours will depend primarily on the student’s scholarship record and his/her ability to carry increased loads.

7. Academically superior students are encouraged to contact the Honors College office to investigate their participation in the University’s Honors Program.

8. Pass/no pass enrollments may not be used to satisfy College of Geosciences requirements.

**COLLEGE CREDIT HOUR REQUIREMENTS**

To be recommended for a bachelor’s degree in the College of Geosciences:

1. A student must complete at least 124 hours of coursework. At least 48 hours of upper-division courses (3000-level and above) must be earned.

2. A minimum of 60 semester hours must be earned in a senior college for a baccalaureate degree. (Credit may be accepted in transfer from a two-year college to meet lower-division requirements only.)

3. To be recommended for a degree, a candidate must spend at least two semesters or the equivalent in residence, complete at least 36 of the last 48 hours in residence and fulfill the grade and grade point requirements of the college.

4. No more than 48 of the minimum 124 credit hours may be taken in one department of the college (geography, geology/geophysics or meteorology).

5. No more than six semester hours of independent study or directed readings may be applied toward degree requirements.

6. No more than six semester hours of military science may be applied toward degree requirements.

**COLLEGE AVERAGE REQUIREMENTS**

To obtain credit toward any degree in the College of Geosciences, a student must have a 2.00 combined retention grade point average in all coursework attempted, a 2.00 grade point average in all coursework attempted in their major area, and a 2.00 OU retention grade point average in all coursework attempted at OU.

**COLLEGE GRADUATION WITH DISTINCTION**

The faculty may recommend that the degree “With Distinction” be conferred on graduates who have a grade point average at OU of 3.50 or higher and “With Special Distinction” on students who have an OU grade point average of 3.75 or higher.

**COLLEGE TEN-YEAR LIMITATION RULE**

Credit in a student’s major which is more than 10 years old may not be applied toward a bachelor’s degree unless it is validated by the major department or by each department if the student’s major is interdisciplinary.

**MINORS**

The College of Geosciences offers students the option of declaring a minor subject. Minors in the college are available in geography, geology, hydrologic science, and geotechniques. The specific minor requirements will be found in the section of the catalog describing the major program offered by the college. A minor in hydrologic science offered by the College is described below. These specific requirements must include at least 15 hours of courses acceptable for major credit. The successful completion of a minor will be entered on the student’s permanent record at the time the degree is recorded. The College of Geosciences also offers the approved minors to students registered in other colleges within the University.

In addition, Geosciences students are eligible to declare a minor offered through other OU colleges.

**Minor in Hydrologic Science**

Hydrologic science is the study of the occurrence, distribution, movement and properties of water and its relationship with the Earth’s environment. Thus, hydrologic science is a cross-disciplinary area which blends aspects of civil engineering, environmental science, geography, geology, geophysics, and meteorology. Persons with backgrounds in hydrologic science will have the expertise to investigate the water cycle, including techniques on measuring the various components with various tools such as radar, GIS, and remote sensing platforms. This will allow for preparing plans for the wise, long-term use of water resources in agriculture, industry, municipal planning, and recreation.

The minor offers two options designed to address the most prominent areas of hydrologic science: Hydrometeorology and Groundwater-Subsurface Environment. Academic requirements for either option include 12 credit hours from the hydrologic-related disciplines listed above. Consult the School of Meteorology for complete requirements.

**College Core Requirements for Graduation**

**BACHELOR OF ARTS DEGREE**

In addition to University requirements which include 40 hours of University-Wide General Education and a minimum of 48 hours of upper-division coursework, the following must be completed:

1. Twenty-four semester hours of adviser-approved coursework which must be:
   a. outside the student’s major school or department, and which
   b. must contain two foreign language courses at the intermediate level,
      or the student must demonstrate competency (via placement or
      competency exam) at the intermediate level.

2. Courses prescribed for the academic program in the respective school or department.

**Total Minimum Curriculum Hours Required for Graduation: 124.**

**BACHELOR OF SCIENCE DEGREES**

1. **Mathematics:** Math 1823, 2423, 2433, 2443 (college algebra or more elementary courses cannot be used to satisfy this requirement).

2. **Computer Science:** C 5131.

3. **Basic Sciences:** Chemistry 1315, Physics 2514 and 2524.

4. **Additional Science Requirements:** A minimum of nine hours of approved courses in biological science, chemistry, computer science,
mathematics, physics, engineering and geosciences science courses outside the major area. A minimum of three hours of the required nine credit hours must be in a geosciences science course outside the student’s major area. A minimum of six hours of the required nine credit hours must be upper-division coursework.

5. Humanities-Social Sciences: Humanities and social sciences electives—nine hours (three hours must be in upper-division coursework). Credit for some of these courses may be used to satisfy General Education requirements.

6. Other Requirements: English 1113, 1213, and 3153; History 1483 or 1493; Political Science 1113; professional electives (varies by school/department); free electives (varies by school/department).

Total Minimum Curriculum Hours Required for Graduation: 124.

For specific requirements for individual degrees, please refer to the academic unit sections in the following pages.

Second Bachelor’s Degrees

A student who has completed the requirements for a bachelor’s degree may receive a second bachelor’s degree upon the completion of the curriculum prescribed for the second degree, provided that the work completed includes at least 30 additional credit hours of upper-division geosciences, applied science and elective courses appropriate to the field of the second degree. These courses must be over and above the credit hours required for the first degree.

Degree Offered

• Bachelor of Science in Geosciences

GENERAL INFORMATION

The Bachelor of Science in Geosciences degree fulfills an important function within the College of Geosciences in that it offers an undergraduate curriculum without field designation. Students may use the flexibility of the Bachelor of Science in Geosciences degree curriculum to pursue educational objectives that combine major elements of two or more of the existing degree curricula. Alternately, they may utilize this flexibility to create educational programs that provide a base in emerging new areas, such as remote sensing, geothermal energy, applied climatology and conservation. Finally, the Bachelor of Science in Geosciences degree may be used by students who wish to pursue a general geosciences education while at the same time preparing themselves for post-graduate study in other fields, for example, business, law or graduate study in the Earth and physical sciences.

The Bachelor of Science in Geosciences degree curriculum incorporates the essential elements of the sciences and mathematics, humanities, social sciences, and an appropriately planned sequence of advanced geosciences courses and laboratories. The important characteristic of this degree program is that more than one-third of the hours required may be taken in an individually planned combination of limited and free electives. Each student is given the opportunity and responsibility with his/her faculty adviser to plan a unique educational program designed to fit his/her specific professional interests and aspirations. The elective pattern may incorporate an introduction to several of the geosciences, advanced studies in two or more areas of geosciences, and a minimum of two upper-division laboratory and/or field courses.

The specific curriculum requirements that must be met by each student’s program, however, is the individual planning and consideration that will lead to an appropriate, cohesive and demanding educational experience. The very nature of this program invites innovation and experimentation. Thus, variable topics, special problems and special courses may be individualized to specific areas of personal interest. At the same time, the program demands active vigilance and supervision by the faculty to insure that each student does, in fact, complete an acceptable program in terms of both depth and breadth.

Upon approval by the student’s faculty adviser, all degree program plans and/or changes are subject to approval by the dean.

DEGREE REQUIREMENTS

For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm.

1. General Education Requirements: 40 hours distributed in accordance with University requirements.

2. College of Geosciences Requirements: 61 semester-hours including English 1113, 1213 and 3153; History 1483 or 1493, Political Science 1113, Math 1823, 2423, 2433 and 2443, Computer Science 1313, Chemistry 1315, Physics 2514 and 2524, nine additional semester hours in science, and nine semester hours in social science/humanities. Credit for some of these courses may be used to satisfy General Education requirements.

3. Geosciences Core Requirements: 33 semester hours of courses numbered 2000 or above from the College of Geosciences. Each student’s total program is to incorporate at least two courses from each of three specified categories in order to insure a broad background in the Geosciences. At least two upper-division laboratory and/or field courses are also required as part of the 33 semester-hour total.

4. Other Requirements: 33 semester hours to include Chemistry 1415. In addition, of these 33 hours, students must take 12 hours of upper-division science elective outside the College of Geosciences in chemistry, computer science, math, physics or engineering, three hours from the mathematics department in which calculus is a prerequisite, four hours of life science and nine hours of free elective. Credit for some of these courses may be used to satisfy College of Geosciences Requirements.

Graduate Study

For specific information about graduate studies, please refer to the academic unit sections in the following pages.

Department of Geography

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Faculty Roster

Professors Nostrand, Spaeth, Wallach, T. Williams; Associate Professors Greene, Hoagland, Rundstrom, Yuan; Assistant Professors Myint, Offen, Rashed, Wood; Adjunct Professor Kessler; Adjunct Associate Professors Fink, Manshment; Lecturers Gros, Tarhule-Lips.

Degrees Offered

• Bachelor of Arts in Geography
• Bachelor of Science in Geography
• Master of Arts
• Doctor of Philosophy

General Information

Geography is one of the oldest organized fields of study. Natural curiosity and a desire to seek resources prompted early people to migrate across land and oceans. As knowledge of the world and its people grew, so too did the discipline of geography. The known world was mapped, and cartography developed as a specialized profession highly dependent on
mathematics. Continued exploration produced information that was synthesized, and the world was defined and interpreted by geographers.

Modern geography continues to analyze global environments and the role of human life in these systems. The study of the interaction of physical and biological systems with social systems forms a central focus for many geographers. No other scholarly field addresses the interplay between patterns of human activity and the Earth’s climates, landforms, vegetation and soils. In this sense, geography is a field of extraordinary breadth, which attempts to understand connections among the dynamic systems operating on the surface of the Earth.

Modern technologies that allow the collection of geographic information from maneuverable or fixed orbital air and spacecraft provide today’s geographer with holistic perspectives of the Earth at frequent intervals in time. Devices to store and analyze these data have given the geographer means to study a wide array of physical and human phenomena across the entire Earth surface. Rhythms in the Earth’s ocean and atmosphere and their impact on continents and islands can be examined. Optimum use of the Earth’s lands and seas can be analyzed. The evolution of patterns of all kinds can be studied.

Programs for Academic Excellence

The department currently works across the broad spectrum of geography. On the physical side, faculty are presently conducting research in hydrology, global and tropical climatology, and biogeography. On the human side, faculty are working in cultural and historical studies bearing primarily on economic and natural resource development, land use, and cross-cultural contacts. In techniques, active research interests of the faculty include geographical information systems (GIS), quantitative methods, statistical climatology, and remote sensing. Between them, the faculty are currently working in many geographical areas, including the United States, Canada, Eastern Europe, West Africa, the Middle East, and South and East Asia.

Special Facilities and Programs

Department offices are housed primarily on the fourth and sixth floors of Sarkeys Energy Center, while laboratories are located on the first floor of the same building. Among those laboratories is a GIS complex which includes PCs, Sun workstations and assorted peripherals such as digitizers, printers, and plotters. Available software includes ERDAS, ARC/INFO, ATLAS/GIS, MAPINFO, and IDRISI. The department also has laboratories for physical geography, cartography, air-photo interpretation, and remote sensing.

University resources include the Bizzell Memorial Library which has an extensive collection of journals and books on geography, a large collection of maps and aerial photographs, and special collections in Western History, the History of Science, and the Geosciences.

Scholarships

The Ralph E. Olson and Margaret Olson Scholarship Fund provides awards to students who have attained high achievement in the field of geography. Undergraduate geography majors are eligible after completion of the junior year. The Clyde Bollinger Award provides awards to graduating seniors who demonstrate outstanding scholarship and enthusiasm for geography.

Undergraduate Study

All undergraduate students majoring in geography are required to complete a 33-hour core of coursework plus an additional 12-hour area of concentration, of which six hours must be in geography. The areas of concentration are defined as:

- **Landscape Interpretation**—corresponds most closely to the traditional view of geography as the field of study concerned with understanding the character of regions and places.
- **Earth System Interactions**—a study of physical geography emphasizing the interrelationships between such environmental systems as climate, vegetation, soil, and the solid earth.
- **Environmental Geography**—applies physical geography to the practical problems of environmental degradation and amelioration.
- **Geotechniques**—group of skills centering on spatial statistics, remote sensing, cartography, and Geographical Information Systems.

Students are encouraged to meet with the departmental faculty adviser early in the student’s academic career to begin discussing a choice of concentration and the courses best suited to the student’s interests.

**Degree Requirements**

For detailed semester by semester curriculum requirements, please consult: [http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm](http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm)

**BACHELOR OF ARTS IN GEOGRAPHY**

1. **General Education:** 40 semester hours distributed in accordance with University requirements.

2. **College of Geosciences Requirements:** 24 semester hours of adviser-approved coursework which must be:
   a. outside the student’s major school or department, and which
   b. must contain two foreign language courses at the intermediate level, or the student must demonstrate competency (via placement or competency exam) at the intermediate level.

3. **Department of Geography Core Requirements:** 33 semester hours including Geography 1103, 1114, 3001, 3924, one additional course in geotechniques, two additional courses in systematic physical geography, two additional courses in systematic human geography, one course in regional geography, and the capstone (4953).

4. **Department of Geography Area of Concentration:** 12 semester hours of adviser-approved courses chosen from one of the three areas listed above (Landscape Interpretation, Environmental Geography, or Geotechniques). At least six of these hours must be Geography.

**BACHELOR OF SCIENCE IN GEOGRAPHY**

1. **General Education:** 40 semester hours distributed in accordance with University requirements.

2. **College of Geosciences Requirements:** 44 semester hours including Math 1823, 2423, 2433, 2443, Computer Science 1313, Chemistry 1315, Physics 2514, 2524, nine additional hours in science, and nine hours in social sciences/humanities. Some of these courses may be used to satisfy General Education requirements.

3. **Department of Geography Core Requirements:** 33 semester hours including Geography 1103, 1114, 3001, 3924, one additional course in geotechniques, two additional courses in systematic physical geography, two additional courses in systematic human geography, one course in regional geography, and the capstone (4953).

4. **Department of Geography Area of Concentration:** 12 semester hours of adviser-approved courses chosen from one of the three areas listed above (Earth System Interactions, Environmental Geography, or Geotechniques). At least six of these hours must be Geography.

**MINOR IN GEOGRAPHY**

A minor in geography requires a minimum of 15 hours of courses acceptable for major credit, including at least six upper-division hours. In fulfilling the minor requirements, a student must complete two introductory courses from 1103, 1114, or 1213; and an introductory-level techniques course from 3353, 3924, 3933, 4353, 4453, 4553, 4933, or 5253. The remainder of the 15 required hours must come from upper-division graded geography courses selected in consultation with a departmental adviser.

**MINOR IN GEOTECHNIQUES**

A minor in geotechniques requires a minimum of 15 hours of courses acceptable for major credit, including at least nine upper-division hours. In fulfilling the minor requirements, a student must complete two introductory courses from 1103, 1114, or 1113; and a minimum of nine hours of upper-division courses from 3353, 3924, 3930, 3933, 4453, 4553, 4933, or 5253.
Graduate Study

Admission Requirements

In addition to meeting the requirements of the Graduate College, students seeking admission to the geography program must have an undergraduate grade point average of at least 3.00; be able to define the goals and objectives for their degree program, and submit at least three letters of recommendation. The department encourages the submission of results from the Graduate Record Examination as additional evidence of promise, but they are not required for admission and no minimum score is required. Students who have some deficiencies in their academic background can be admitted conditionally at the discretion of the department.

Master of Arts

The M.A. degree certifies that a student has a professional grasp of the concepts and techniques of geography and has demonstrated competence and originality in their use. The M.A. degree can be acquired by one of two methods—a thesis option or a non-thesis option.

The thesis option degree requires a total of 30 hours of graduate credit, with at least a B average. Specific coursework requirements include: satisfactory completion of Contemporary Geographical Thought (6973); three three-credit hour research seminars or graduate courses, one field course, and a minimum of four hours and no more than six hours of thesis credit. In addition, the student will:

a. Present a thesis acceptable to the advisory committee.

b. Satisfactorily complete an oral examination.

No student may be examined orally more than once. Only after the advisory committee agrees that the thesis is essentially complete will the oral examination be scheduled.

The non-thesis option requires a total of 36 hours of graduate credit, with at least a B average. Specific coursework requirements include: satisfactory completion of Contemporary Geographical Thought (6973), Research Methods (6953), a field course, three three-credit hour research or graduate courses, and six hours of advisor-approved electives. In addition, the student will satisfactorily complete a comprehensive final examination within his or her chosen field of study (Physical Geography, Human Geography or GIS).

In order to assure that an M.A. program is completed without undue delay, the evaluation process must be successfully completed before the student has completed more than 42 credit hours of graduate coursework. Courses beyond this total can be counted toward a Ph.D. degree only if the student has completed the M.A. degree or its equivalent.

Doctor of Philosophy

The Ph.D. degree certifies that a student has mastered a significant body of geographical knowledge and has demonstrated a high degree of professional competence as a geographer by making an important, original contribution to knowledge. The Ph.D. requires:

a. a total of at least 90 semester hours of graduate credit;

b. successful completion of Contemporary Geographical Thought (6973), and three three-credit hour seminars or graduate courses, and one field course;

c. the demonstration of an acceptable level of competence in two areas of specialization;

d. development of a cognate field; and,

e. the completion of an acceptable written dissertation followed by an oral defense of that dissertation.

All Ph.D. students must identify an advisory committee which will consist of the adviser and four other faculty members, one of whom must be from a discipline other than geography. The committee must be approved by the Department faculty, upon the recommendation of the adviser and student. Each student will develop and declare primary and secondary areas of specialization that are acceptable to the advisory committee. Students are expected to declare provisional specialties, in consultation with the advisory committee, by the end of the second semester of residence in the Ph.D. program. Coursework requirements in connection with this specialty, as well as with the cognate field, are determined by the student and the advisory committee in a formal conference held before the end of the first year of residence.

Each student must select a cognate field or discipline related to his or her area of specialization. A cognate field will normally consist of at least nine hours of courses in more than one discipline. The advisory committee must approve both the cognate field and the courses which fulfill this requirement.

The readiness of a student to proceed with dissertation research will be evaluated by written and oral examinations. These will be administered by an examining committee of at least four faculty members from geography, one of whom will be the student’s adviser, and one faculty member from outside the discipline. The written portion of the examination will cover the degree specializations and cognate field. The examination will be prepared by the adviser from questions suggested by members of the examining committee. The oral examination will consist of follow-up questions related to the written portion and to the student’s knowledge of geographic thought and methodology. Satisfactory completion of the written and oral portions of the general examination is followed by formal certification of candidacy for the Ph.D. degree.

After taking the general examination, a formal dissertation proposal must be presented in a meeting open to the geography faculty and graduate student body. If the proposal is judged to be inappropriate or in need of additional work, a second presentation may be required. It is the responsibility of the adviser to determine the consensus of the committee to authorize the student to proceed with the dissertation. No formal vote of approval shall be required of the faculty as a whole, but the proposal must have the sanction of all members of the dissertation committee.

Before the presentation of the proposal, the following procedure will be employed:

a. the membership of the dissertation committee shall be established,

b. the time and place of the presentation shall be adequately publicized, including a written announcement to the geography faculty, and,

c. a written statement of the proposal shall be given to each member of the dissertation committee and to the remaining members of the faculty.

The final requirement is the preparation and oral defense of a Ph.D. dissertation, which must be a major piece of research recognized by the dissertation committee as a significant contribution to knowledge. The dissertation committee must consist of at least five faculty members (except by petition to and approval by the faculty); three or more of them must be geographers and at least two of them, including the adviser, must be on the geography graduate faculty of the University. Members of the advisory committee will normally remain as members of the examination and dissertation committees. All changes in committee membership must be forwarded to the Graduate College for approval at least 30 days prior to defense of the dissertation.

After advancement to candidacy for the Ph.D. degree, a student is expected to submit a dissertation manuscript within four years. After this time, at the discretion of the Department of Geography faculty, the student may be required to repeat the general examinations and/or to resubmit a dissertation proposal as a condition for remaining a degree candidate. As long as there is clear evidence that a student is making progress and is keeping up-to-date professionally, the four-year time period may be extended on recommendation of the dissertation committee. Experience shows, however, that long delays tend to increase the likelihood of problems in completing a dissertation.

The final defense of the dissertation will be scheduled only after the committee has agreed to approve the draft as nearly complete. Procedures for this defense shall follow those outlined by the Graduate College. Major points of conflict regarding substance or style should be resolved before the final defense. However, minor additions and revisions may be expected after the defense.
School of Geology and Geophysics

Roger M. Slatt, Director
Michael Engel, Graduate Liaison

Sarkeys Energy Center, Suite 810
Norman, OK 73019-1009

Phone: (405) 325-3253
FAX: (405) 325-3140
Internet: http://geology.ou.edu
E-mail: rslatt@ou.edu

Faculty Roster
Professors Castagna, Cifelli, Elmore, Engel, Forgetson, Gilbert, Harper, London, Mankin, Mitra, Philip, Slatt, Westrop, Witten; Associate Professors Aherm, Deming, Dewers, Pigott, Soreghan, Weaver, R. Young; Assistant Professor Lupia.

Degrees Offered
• Bachelor of Science in Geology
  (environmental geology, general geology, paleontology and petroleum geology)
• Bachelor of Science in Geophysics
• Master of Science–Geology, Geophysics
• Doctor of Philosophy–Geology, Geophysics

General Information
Charles Gould founded the Department of Geology in 1900. During the early part of this century, Gould and other faculty pioneered the application of geological and geophysical techniques in the search for petroleum, and as a result of their efforts the department gained early recognition in the field of petroleum geology. In the 1930’s the title of the department was changed to school in recognition of the national prominence of the program. Later, geophysics was added to the title and an undergraduate degree in geophysics was instituted. The school has a long tradition of excellence in the Earth sciences, and its graduates are distinguished members of industry, academia and government organizations.

The School of Geology and Geophysics’ mission is to be a premier program in the petroleum geosciences featuring multidisciplinary approaches. Disciplinary strengths are maintained in five areas: petroleum exploration and development, sedimentary systems and geochemistry; structural geology and rock mechanics; exploration and environmental geology and geophysics; and rock and mineral chemistry. The school has grown significantly and diversified with the recent addition of new faculty and research equipment. This expansion gives the school considerable breadth in graduate education and provides opportunities for research on a variety of significant problems in the earth sciences. Consequently, the school strives to provide the intellectual environment where students can develop into successful modern geoscientists able to understand, manage, predict, and in some cases control the dynamic processes of Planet Earth. This ability includes wise harvesting of resources, as well as disposal of wastes for the betterment of humankind.

The school, which is housed in the Sarkeys Energy Center, presently consists of 20 full-time faculty and approximately 62 undergraduate students and 72 graduate students. Geology is the study or science of the solid Earth and is one of several related subjects commonly grouped in the geosciences. Geologists are concerned primarily with rocks that make up the outer part of the Earth and the fluids and resources they contain, as well as various aspects of the Earth’s deeper interior. An understanding of the Earth involves principles of physics, chemistry, and biology (but with the time domain emphasized, as in stratigraphy and paleontology). The study and mapping of surface forms is shared with geography. Hydrogeology is the study of subsurface fluids and their role in geologic processes, such as contaminant transport. An understanding of fluids is crucial in understanding ore formation and petroleum migration. Paleontology, the study of records left by animals and plants that lived in past ages, is part of geology and involves fundamental aspects of biological science.

Geology is the premier environmental science. Geology has developed a number of sub-disciplines including petroleum geology, mineralogy, petrology, sedimentology, structural geology, tectonics, geochemistry, stratigraphy, paleontology, paleoecology, biostratigraphy, and hydrogeology.

Geophysics is the scientific study of the Earth using the methods of physics. The aim of geophysics is to determine the composition and state of the Earth’s interior, and the manner in which internal processes produce the observed features of the Earth’s surface, primarily through methods of remote sensing. Our geophysics teaching and research concentrates on gravity studies, exploration and development seismology for hydrocarbons, near-surface hydrologic problems, and imaging of shallow structures, geomagnetics and paleomagnetics; geomechanics; and terrestrial heat flow studies.

Programs for Academic Excellence
For the student, excellence can be achieved through immersion in the science itself.

• Students are encouraged to participate with their peers in professional societies through local chapters.
• Seminars and colloquia are regularly offered in the School featuring presentations of the latest advances in the geosciences by experts in the field.
• Students are actively encouraged to become involved in current faculty research projects, develop their own research projects, and present these results at regional and national meetings with school support.
• Opportunities for summer employment in professional and research settings are promoted.
• Strong connections are maintained with the Oklahoma Geological Survey, where many environmentally and economically important site-specific problems are being investigated.
• The School, together with the Oklahoma Geological Survey, maintains one of the best Geology and Geophysics libraries in the country.
• Interdisciplinary programs with other departments are encouraged.

Special Facilities and Programs
BASIN ANALYSIS LABORATORY
Petroleum system analysis requires the integration of geology, geophysics, petrophysics, geochemistry, and risk analysis. For basin modeling, this workstation and micro-computer laboratory complements the Seismic Stratigraphy MPI Laboratory by taking the output an additional step. For basin analyses, the lab incorporates ProComm’s Basin Modeling Toolbox, and Platte River’s BasinMod, BasinView, and BasinFlow software. Both 1D and 2D models for tectonic subsidence analyses and for geochemical modeling are performed from either importing seismic line data and/or from generating models from borehole data. Risk analyses are performed using our own fuzzy arithmetic and other dynamic algorithms as well as Palisade’s @Risk.

ELECTRON MICROPROBE LABORATORY
The electron microprobe laboratory is built around a fully automated Cameca SX50 microanalyzer that incorporates the latest innovations in
INSTITUTE OF RESERVOIR CHARACTERIZATION

Under the auspices of the Sarkeys Energy Center, the Schools of Geology and Geophysics and Petroleum and Geological Engineering have collaborated to help maintain an interdisciplinary approach to the science of reservoir characterization. The Institute focuses on:

• Multidisciplinary model building where the essential geological features controlling flow paths in specific reservoirs are recognized;
• Integrating actual field data into workstation based programs; and
• Testing specific model prediction against real field data and developing case histories appropriate to important reservoir classes.

INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS LABORATORY

The INAA laboratory contains gamma-ray spectrometers for the determination of rare-earth elements and other trace element abundances in neutron-activated geological materials.

ORGANIC GEOCHEMISTRY/STABLE ISOTOPE LABORATORY

The organic geochemistry laboratory has state-of-the-art facilities and instrumentation for the isolation and analysis of organic compounds from geologic materials. The laboratory contains a Finnigan Triple Stage Quadrupole MS/MS system, an Ion Trap Detector, a combined gas chromatograph-isotope ratio mass spectrometer, a Delta E isotope mass spectrometer, several Varian, HP and Carlo Erba gas chromatographs equipped with nitrogen and sulphur selective detectors, CDS pyrolysis units, HPLC equipment and a PYRAN pyrolysis system equipped with an INCO 50 mass spectrometer.

PALEOMAGNETICS LABORATORY

The paleomagnetic laboratory is located in a magnetically shielded room and contains a 2G cryogenic magnetometer with DC squids, an automated sample handler and alternating field demagnetizer, a thermal demagnetizer, two magnetic susceptibility systems, and an impulse magnetizer. Most of the studies performed in the lab focus on understanding remagnetization mechanisms, paleomagnetic dating of diagenetic events, and paleoclimate studies.

PALEONTOLOGY LABORATORIES, SAM NOBLE OKLAHOMA MUSEUM OF NATURAL HISTORY

The primary research facilities in invertebrate paleontology, vertebrate paleontology, and micropaleontology are housed at the Sam Noble Oklahoma Museum of Natural History. The laboratories contain a variety of equipment for the mechanical preparation of vertebrate and invertebrate fossils, and for macrophotography. The museum is also the repository for extensive paleontological collections which include more than 250,000 fossil specimens.

SEDIMENTARY GEOCHEMISTRY LABORATORY

The sedimentary geochemistry laboratory is dedicated to the study of chemical systems in recent and ancient sedimentary environments. Equipment includes a VG Micromass 602C mass spectrometer, Perkin-Elmer 2380 Atomic Absorption Spectrophotometer, carbon/carbonate silicate isotope preparation systems, and a variety of automated ion analyzers, titrimeters, and kinetic reaction measuring systems for the analysis of surface, subsurface and interstitial marine and non-marine waters.

SEISMIC STRATIGRAPHY-MPI LABORATORY

A premier geophysical exploration and development research laboratory focused upon integrated seismic modeling, processing, and interpretation (MPI) of seismic data worldwide. Such integration forms a prerequisite foundation for accurate seismic stratigraphic interpretation and of eventual petroleum system analysis in the Basin Analysis Laboratory. Continually upgraded computer facilities include a fire-walled 100 MIPS + Ethernet assembly of five Sun workstations (dual processor Ultra 80 and Ultra 2s) with terabytes of memory, disk, and tape storage capabilities including standard open reel, exabyte, and the industry standard 10 cartridge IBM.
3590 robotic. Numerous color image plotting peripherals exist in addition to the industry standard Versatec 8900 36 inch. 2D seismic data include more than 100 km of industry-acquired multifold marine and land seismic field and stacked records from North America, South America, the Middle East, and Southeast Asia. 3D seismic data sets represent contemporary land and marine acquisition from both the United States and South America.

Modeling is conducted using both GXTechnology and GeoQuest software with a variety of digital inputs in addition to a 1.5m x 2m Summagraphics digitizer. 2D and 3D AVO modeling and inversion is conducted using our own algorithms as well as Hampson-Russell software. Seismic processing is conducted using a four license installation of Western Omega, the preeminent industry standard for commercial processing of 2D and 3D reflection seismic data. Seismic stratigraphic interpretation uses the complete GeoQuest GeoFrame group of geological, geophysical, and petrophysical software.

SHELL CRUSTAL IMAGING FACILITY

This facility provides a state-of-the-art geophysical computer environment for the integration of 2D and 3D modeling, data processing, interpretation, mapping and visualization of seismic reflection and georadar data, as well as petrophysical analysis and reservoir modeling as related to the data interpretation.

The local fast ethernet network supports a SUN HPC 450 Enterprise server. Software includes GXTechnology's GX! software, a complete set of geophysical analysis software, Hampson-Russell Software Services LTD.'s GeoQuest/Schlumberger's complete GeoFrame line of geological, geophysical, petrophysical and reservoir applications, and Landmark Graphic Corporation's ProMAX processing software.

Additionally, the 2D/3D Interpretation Teaching Lab provides 8 dual-headed PC Pentium Pros with an NT server for teaching and research with Seismic Micro-Technology, Inc.'s Kingdom Suite software for seismic interpretation and Interplex Ltd.'s Seistrix software for data processing. SCIF is maintained by a full-time systems administrator.

TEXACO X-RAY LABORATORY

The Texaco X-Ray Laboratory contains an automated x-ray diffractometer for the determination of phase compositions and crystallite orientations in geological samples, and an automated x-ray fluorescence spectrometer for the quantitative determination of major and trace elemental abundances in geological samples.

THIN SECTION/ROCK PREPARATION LABORATORY

This is a fully-equipped laboratory for the preparation of rock thin sections for petrographic and paleontologic analysis and for sample preparation for the X-Ray Laboratory. Thin section types produced include standard covered sections, double polished fluid inclusion sections, ultra thin (5 to 8 micron) sections, polished microprobe sections, oriented grain sections, and serial fossil thin sections.

THE YOUNGBLOOD ENERGY LIBRARY

A gift to the University of Oklahoma in memory of a leading Oklahoma City oilman has created a spacious geology library ringing a two-story atrium in the heart of the Sarkeys Energy Center. This attractive new library space is named in honor of Laurence S. Youngblood.

The library collection began in the late 1800's with the personal library of Charles N. Gould, one of the earliest University faculty members, the first geologist at the OU faculty, and the first director of the Oklahoma Geological Survey. Its growth was accelerated with the deposit status Gould established with the U.S. Geological Survey that continues today. During the 1950s and 1960s, numerous complete retrospective runs of foreign serials were acquired through the Farmington Plan (a federal program to acquire literature in specific fields for libraries of identified excellence). Via the Oklahoma Geological Survey's domestic and international exchanges, publications are acquired in several languages from nations around the world.

The current collection contains over 170,000 map sheets and approximately 99,000 catalogued volumes on the subjects of geochemistry, geology, geomorphology, geophysics, hydrology, mineralogy, paleontology, petrology, stratigraphy, structure and tectonics. The interdisciplinary nature of the Earth sciences is supported by chemistry, math, physics and engineering branch libraries. Bizzell Memorial Library contains the biological sciences and the internationally recognized History of Science Collection.

Career Opportunities

There are approximately 75,000 geologists and geophysicists at work in the United States today. Most are employed by private industry as petroleum geologists and geophysicists whose work is vital to oil and gas companies. Other geologists and geophysicists work for mining companies to locate ore deposits and estimate reserves. Geologists are also employed in other commercial fields such as cement and ceramic industries; sand and gravel firms; railroads; engineering companies; environmental agencies and in the banking industry. The largest single employer of geoscientists in the U.S. is the federal government. Most work for the United States Geological Survey, but others work for the U.S. Department of Energy national laboratories, Soil Conservation Service, Bureau of Land Management, Environmental Protection Agency, National Aeronautics and Space Administration, National Park Service, Bureau of Mines, Forest Service, or the U.S. Army Corps of Engineers. Many geoscientists work for the 50 state geological surveys. Colleges and universities in teaching and research positions employ about 8,000 geoscientists. Many geoscientists are self-employed. Some are independent oil operators; others work as consultants. Most consultants have acquired prior experience in industry, teaching or research. Opportunities also now exist in public school teaching.

The curricula for the Bachelor of Science in Geology and the Bachelor of Science in Geophysics are designed to provide the necessary preparation for professional work or graduate study. Options are available in petroleum geology, environmental geology, paleontology, and in exploration geophysics.

The Master's Degree in Geology or Geophysics is designed to provide a professional level degree for industry employment. Traditionally, this degree level has been favored by major petroleum companies.

The Ph.D. in Geology is a research oriented degree which provides students the opportunity to seek employment in a variety of areas including academia, industry and government.

Scholarships and Financial Aid

Students entering the University of Oklahoma are eligible to apply for any of the general scholarships awarded by the University Scholarship Committee. General scholarships are awarded on the basis of academic achievement and financial need. These scholarships and other forms of financial aid may be applied for through the Office of Financial Aid Services, University of Oklahoma, Norman, OK 73019-0230.

In addition to general scholarships offered through the University of Oklahoma, the School of Geology and Geophysics offers many scholarships sponsored by alumni and industry. You may contact the Director, School of Geology and Geophysics, 100 East Boyd Street, Sarkeys Energy Center, Room 810, Norman, Oklahoma 73019-0628 for application information.

UNDERGRADUATE EMPLOYMENT OPPORTUNITIES

Geology and geophysics students are eligible to participate in research projects and part-time employment opportunities with faculty members. Other opportunities for research and employment exist at the Oklahoma Geological Survey and the Youngblood Energy Library.

FINANCIAL SUPPORT—GRADUATE STUDIES

Several types of financial aid are available to students on a competitive basis. Prospective graduate students are considered automatically for financial aid at the time of application. The school offers annually approximately 14 teaching assistantships with stipends which include a partial waiver of tuition. International students are required to pass an English language proficiency exam (administered by the GAELS Program).

School of Geology and Geophysics
before they can hold a teaching assistantship. Additionally, the school awards several research assistantships and fellowships using funds from industrial and other private sources. Funds for graduate support are also available from the Oklahoma Geological Survey, and the institutes of the Sarkeys Energy Center. Grant-supported research assistantships are available through faculty conducted federal-, foundation- or industry-sponsored research. These assistantships carry a stipend comparable to teaching assistantships. Ph.D. students are encouraged to write research proposals with their graduate advisers for financial support and to apply for National Science Foundation Graduate Fellowships.

Undergraduate Study

ADMISSION

Admission to our undergraduate programs is based upon the requirements of the University of Oklahoma that are in effect at the time of a student’s initial enrollment in the state system. An application for admission and information regarding entrance requirements to the University may be obtained from the Office of Prospective Student Services, Jacobson Hall, 550 Parrington Oval, L-1, Norman, OK 73019-3032.

Degree Requirements

For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm.

BACHELOR OF SCIENCE IN GEOLOGY

This curriculum is designed to provide the necessary background for professional work or graduate studies in geology and allied sciences. Students with an inadequate high school or two-year college background in mathematics, chemistry or physics may require more than four academic years to complete this program.

1. General Education Requirements: 40 semester hours distributed in accordance with University requirements.

2. College of Geosciences Requirements: 61 semester hours including English 1113, 1213 and 3153, History 1483 or 1493, Political Science 1113, Math 1823, 2423, 2433 and 2443, Computer Science 1313, Chemistry 1315, Physics 2514 and 2524, nine additional hours in science (six hours must be upper-division, and three hours must be a geosciences course outside the major), and nine hours in social science/humanities (three hours must be upper-division). Credit for some of these courses may be used to satisfy General Education requirements.

3. Geology Core Requirements: Geology 1114, 1124, 2224, 3114, 3223, 3233, 3513, 4113, 3123, 4136, three hours of geology/geophysics elective, and Geophysics 3414. Credit for some of these courses may be used to satisfy General Education and college requirements.

4. Other Requirements: 27 semester hours. Chemistry 1415, 13 hours of free electives (8 of these hours must be upper-division), and nine hours of science elective. Credit for some of these courses may be used to satisfy College of Geosciences requirements.

Environmental Geology Option

To obtain a B.S. in Geology with an Environmental Geology option, a student must take the same coursework required for a B.S. in Geology, except free elective and science requirements are more structured, and two additional hours are required. The following courses are specific to this option: GEOL 2232, 4113, 4233, P E 3153 and 3813, and GPHY 3413 and 4874.

For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm.

Paleontology Option

To obtain a B.S. in Geology with a Paleontology option, a student must take the same coursework required for a B.S. in Geology, except 17 hours of geology/geophysics and science electives are more narrowly specified. The following courses are specific to this option: GEOL 1124, 3513, 4413, 4513, and ZOO 4204.

For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm.

BACHELOR OF SCIENCE IN GEOPHYSICS

This curriculum constitutes a preparation for professional work and also provides the necessary background for graduate work in geophysics and geology. The curriculum has two options: exploration geophysics and general geophysics, which differ only in the required geophysics courses. In addition to the College of Geosciences core requirements, the following major courses and supporting courses are required: Geology 1114, 1124, 2224, 3114, 3213, 3233, and three elective upper-division hours of geology; Mathematics 3113, and three elective upper-division hours of mathematics; Physics 3054, and six elective upper-division hours of physics; and one of the following options:

General Option

For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm.

1. General Education Requirements: 40 semester hours distributed in accordance with University requirements.

2. College of Geosciences Requirements: 61 semester hours including English 1113, 1213 and 3153, History 1483 or 1493, Political Science 1113, Math 1823, 2423, 2433 and 2443, Computer Science 1313, Chemistry 1315, Physics 2514 and 2524, nine additional hours in science (six hours must be upper-division), and nine semester hours in social science/humanities (three hours must be upper-division). Credit for some of these courses may be used to satisfy General Education requirements.

3. Geophysics Core Requirements: 49 semester hours. Geology 1114, 1124, 2224, 3223, 3114, 3213, six hours of geology/geophysics electives, and Geophysics 3413, 5713 and 4953, and 12 hours of geophysics electives. Credit for some of these courses may be used to satisfy General Education and college requirements.

4. Other Requirements: 20 semester hours. Chemistry 1415, three hours of free elective, Math 3113 and three hours of math elective, and six hours of upper-division physics electives. Credit for some of these courses may be used to satisfy College of Geosciences requirements.

Exploration Geophysics Option

For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm.

1. General Education Requirements: 40 semester hours distributed in accordance with University requirements.

2. College of Geosciences Requirements: 61 semester hours including English 1113, 1213 and 3153, History 1483 or 1493, Political Science 1113, Math 1823, 2423, 2433 and 2443, Computer Science 1313, Chemistry 1315, Physics 2514 and 2524, nine additional semester hours in science (six hours must be upper-division), and nine semester hours in social science/humanities (three hours must be upper-division). Credit for some of these courses may be used to satisfy General Education requirements.
3. Geophysics Core Requirements: 48 semester hours. Geology 1114, 1124, 2224, 3233, 3114, 3123, three hours of geology electives, Geophysics 3413, 4874, 5864, 4983 and nine hours of geophysics electives. Credit for some of these courses may be used to satisfy General Education and college requirements.

4. Other Requirements: 20 semester hours. Chemistry 1415, three hours of free elective, Math 3113 and three hours of math elective, and six hours of upper-division physics electives. Credit for some of these courses may be used to satisfy College of Geosciences requirements.

MINOR IN GEOLOGY
For completion of a minor in Geology, students are required to complete one of the following:
1. GEOL 1114, 1124, and 2224, plus a minimum of six hours of upper-division coursework; or,
2. GEOL 1114, 1124, plus a minimum of nine hours of upper-division coursework; or,
3. GEOL 1114 or 1124, or 2224, plus a minimum of nine hours of upper-division coursework; or,
4. GEOL 1114 or 1124, plus a minimum of 12 hours of upper-division coursework.

Graduate Study

Admission
The School of Geology and Geophysics seeks to bring together students from diverse cultural and academic backgrounds. Hence, we encourage applications from qualified international students as well as Americans. Decisions on admission to the graduate program are based on several criteria, including course grades; results on the verbal and quantitative sections of the Graduate Record Examination (Note: the advanced examination in geology or geophysics is not required for admission); letters of recommendation evaluating academic performance and potential; a statement of purpose composed by the student; and an undergraduate degree (or the equivalent) with a minimum 3.00 grade point average (4.00 scale). International students whose native language is not English must have a TOEFL score of at least 213.

The minimum requirements for full admission standing to our Master of Science program is evidence of the completion of a B.A./B.S. degree from an accredited college/university, and for the Doctor of Philosophy program is evidence of a M.S. degree (with thesis) from an accredited college/university. There are no formal course requirements for admission to our program. However, additional undergraduate coursework in specific areas may be required by the student's committee if it is essential for the completion of their degree in their chosen area of study.

Normally, students are admitted to the graduate program in the fall semester. Applications for fall admission are reviewed in February, and offers of admission and financial aid are extended in March. In order to be considered for admission with financial aid, application materials should be received by February 1. Application materials are available from the school at the address below, or forms may be downloaded from the web at http://geology.ou.edu/library/application.pdf and http://geology.ou.edu/library/RECO.pdf:

Graduate Admissions Committee
School of Geology and Geophysics
The University of Oklahoma
Sarkeys Energy Center
100 E. Boyd Street, Suite 810
Norman, OK 73019-1009

Degree Requirements
The School of Geology and Geophysics offers programs leading to the M.S. degree in geology, M.S. degree in geophysics, and the Ph.D. degree in geology. Some important aspects of these degree programs are described below.

Master of Science
The master's degree programs in geology and geophysics are intended primarily for those students who plan careers in the petroleum or minerals industries or with state and federal government agencies. The goal of the M.S. degree program is to prepare students by providing a broad background in the Earth sciences and related science and engineering fields through coursework; and encouraging critical thinking and analysis in the solution of geological and geophysical problems through independent thesis research.

The Master of Science degrees in geology and geophysics normally require four semesters and one summer of full-time study and research. Generally, three of the four semesters of residence are devoted primarily to coursework; the summer and fourth semester are devoted primarily to the completion of research for the M.S. thesis. Twenty-six semester hours of coursework carrying graduate credit and four hours of thesis are required for completion of the M.S. degree. Each candidate for the M.S. in geology is required to complete at least one approved course in three of six core areas in the Earth sciences: geochemistry, geophysics, igneous/metamorphic petrology, paleontology/biostratigraphy, sedimentary petrology/sedimentology, and structural geology. In addition, the student is required to complete at least two approved courses in a science outside of geology.

The M.S. degree in geophysics also requires completion of 26 semester hours of coursework and four hours of thesis. Coursework includes at least three courses in physics or related engineering beyond general physics; at least three courses in mathematics beyond the general calculus sequence; at least one graduate course in geology, and three courses in geophysics.

An original, independently executed research project reported in a thesis is required to successfully complete M.S. degrees in both geology and geophysics. Normally, a research topic is selected by the student in consultation with a faculty adviser during the second semester of residence. Although the research topic can include any field of geology or geophysics, most students elect to work closely with a faculty adviser on a problem in the adviser’s research specialty. The research projects selected by M.S. students are expected to lead to presentations at regional and national meetings and papers in national and international journals.

A graduate degree candidate in geology and geophysics must present the results of his/her thesis research at a Graduate Colloquium of the School of Geology and Geophysics before he/she may schedule the final oral examination.

Doctor of Philosophy
The Ph.D. degree program in geology is intended primarily for those students who plan research careers in the Earth sciences in universities, industry or government agencies. The goal of the Ph.D. degree program is to prepare the student for a career in research by providing coursework in an area of specialization in geology; providing a strong background in allied fields such as mathematics, physical science, biological science, and engineering to give the student the necessary tools to conduct original and significant geological research; and encouraging critical thinking and analysis of geological problems through the design of original research projects.

The Ph.D. degree in geology normally requires a minimum of three years beyond the M.S. degree. The Graduate College at the University of Oklahoma requires 90 post-baccalaureate semester hours of coursework. Generally, the first year of residence is devoted primarily to coursework in preparation for the general examination; the remaining two years are devoted to both coursework and research. There are no specified course requirements for the Ph.D. degree in geology. Rather, a coursework program is designed for each student in consultation with a doctoral committee composed of at least five graduate faculty members, including at least one from outside the major department within the University and one member outside the University. The purpose of the coursework is to prepare the student for the general examination, which tests the mastery of the field of specialization and related fields as well as the capacity for synthesis, sound generalization, and critical thinking. The examination consists of a written section in the major field of study, written sections in related fields, and oral defense of an original research proposal. Frequently, the original research proposal is the student’s dissertation topic.
The dissertation is the culmination of an original research project in the student’s field of specialization and should make a significant contribution to scientific understanding in the field. Normally, the student works closely with the faculty adviser in the design and execution of the research project. The student and the adviser may submit proposals to foundations or industry for financial support to carry out the research, and they report the results of the research at regional, national and international meetings and in papers published by national and international journals.

A graduate degree candidate in geology and geophysics must present the results of his/her dissertation research at a Graduate Colloquium of the School of Geology and Geophysics before he/she may schedule the final oral examination.

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**School of Meteorology**

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**Faculty Roster**

Professors Beasley, Bluestein, Carr, Crawford, Droegemeier, Fiedler, Friday, Karoly, Lamb, Leslie, Palmer, Snow; Emeritus Professors Duchon, Kimpel, Lilly, Sasaki; Associate Professors Biggerstaff, Fedorovich, Morrissey, Postawko, Richman, Shapiro, Straka, Xue; Research Professor Kogan; Assistant Professor Kastner-Klein; Adjunct Professors Brooks, Burgess, Davies-Jones, Dowell, Dowiah, Hane, Kalnay, Kessler, Kogan, MacGorman, Rust, Ryzhkov, Schaefer, Stensrud, White, Xu, Zrnic; Adjunct Associate Professors Kloesel, Schultz, Wicker; Adjunct Assistant Professors Basara, Brewster, Cortinas, Elmore, Gallagher, Laufersweiler, McPherson, Richardson.

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**Degrees Offered**

- Bachelor of Science in Meteorology
- Master of Science in Meteorology
- Master of Science in Professional Meteorology
- Doctor of Philosophy

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**General Information**

Meteorology, or atmospheric science, is the study of the atmosphere and its interaction with Earth's surface, oceans, and biological systems. Meteorologists seek to describe, understand, and predict weather phenomena that occur on space scales ranging from millimeters to thousands of kilometers, and on time scales from microseconds to thousands of years or longer. These phenomena range from localized thunderstorms and tornadoes, to regional frontal systems and hurricanes, to global climate change.

There are two major scientific thrusts in meteorology today. One is in the study and prediction of severe and hazardous weather events that strongly affect life and property. These include, but are not limited to, lightning, tornadoes, floods, blizzards, dense fog and hurricanes. The second thrust is understanding the earth’s climate system. Research activities here include studies of past climates, regional (mesoscale) climate, societal impact of climate change and seasonal forecasting. The School of Meteorology is actively engaged in research on all the above-mentioned topics.

The University of Oklahoma is the only university in the state which offers undergraduate and graduate programs in meteorology. The School of Meteorology maintains an enrollment of approximately 350 undergraduate students and 75 graduate students. Led by 20 internationally recognized faculty members, and assisted by adjunct faculty members representing scientists from other Weather Center members, the four-year undergraduate program is a broad, rigorous and challenging curriculum in basic meteorology. Students graduating with a bachelor’s degree are well qualified for graduate school or employment in government, the military, or private industry.

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**Programs for Academic Excellence**

A unique feature of the School of Meteorology is that it has close ties with several university-based state and federal research and operational organizations in Norman. Collectively known as the National Weather Center, these organizations include the School, the Department of Geography, the Oklahoma Climatological Survey, the Cooperative Institute for Mesoscale Meteorological Studies, the Center for Analysis and Prediction of Storms, the Environmental Verification and Analysis Center (EVAC), the National Severe Storms Laboratory, the National Weather Service Forecast Office, the Sasaki Applied Meteorology Research Institute, the Storm Prediction Center, the WSR-88D Doppler Radar Operations Center, and the Warning Decision Training Branch. These organizations provide employment opportunities for undergraduate and graduate students as well as opportunities to participate in state-of-the-art research projects and observational field programs. The high concentration of research and operational institutions also attracts a large number of distinguished visiting scientists for stays varying in length from a day to a year.

Facilities available to students and faculty include an IBM Regatta and 139-node PC cluster super-computer facility, numerous LINUX-based PCs including The Williams Computing Laboratory and Macintosh and IBM-compatible personal computers located in the Williams Forecasting Laboratory. These resources are interconnected through the Geosciences Computing Network and to the Internet for access to national super-computer centers, the World-Wide Web, and other stops on the “information superhighway.” The school provides a full suite of current weather data, radar data, forecast products from the National Weather Service, and access to data from the Oklahoma MesoNetwork, a unique network of remotely operated ground-based sensors providing current weather at the county level for the entire state. The school also supports two large mobile Doppler radar vehicles for the detailed study of tornadoes, thunderstorms, hurricanes, fronts and other small-scale phenomena. Observational and experimental work and instrumentation development are pursued in two large laboratories on the 15th floor of the Sarkeys Energy Center.

“Hands-on” experience is an important part of the degree programs of the School of Meteorology, and facilities of the Weather Center institutions taken together provide unique opportunities and challenges for students at all levels of study.

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**CENTER FOR ANALYSIS AND PREDICTION OF STORMS (CAPS)**

CAPS originated as a National Science Foundation Science and Technology Center which is now supported by a variety of funding agencies. Its primary mission is developing techniques for the operational prediction of small-scale and mesoscale weather. Its research programs include the development of a new numerical forecast model, techniques for four-dimensional data assimilation and parameter retrieval, small-scale predictability and storm simulation studies, Doppler radar analysis, forecast evaluation, and parallel computing. Located on the eleventh floor of the Sarkeys Energy Center, CAPS offers graduate research assistantships, post-doctoral fellowships, visiting scientist appointments, and undergraduate fellowships targeted for minorities and traditionally under-represented groups in all scientific and engineering disciplines.

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**COOPERATIVE INSTITUTE FOR MESOSCALE METEOROLOGICAL STUDIES (CIMMS)**

CIMMS is a joint University of Oklahoma/NOAA cooperative institute designed to improve the effectiveness of research and instruction by providing a stimulating environment where scientists can meet and work on problems of mutual interest. Current research themes include convective and mesoscale modeling, dynamics and turbulence, remote sensing, and boundary layer studies. CIMMS is also the home of the site scientist for the...
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DOE Atmospheric Radiation Measurement (ARM) Program for the Great Plains, and is beginning work on mesoscale impact on climate. CIMMS is housed on the eleventh floor in the Sarkeys Energy Center.

ENVIRONMENTAL VERIFICATION AND ANALYSIS CENTER (EVAC)

The Environmental Verification and Analysis Center (EVAC) brings together scientists to work as a team to develop, apply, and teach geostatistical methods used to verify model and remote sensing data. The center includes representatives from different university and government programs and the Mesonet network of environmental monitoring stations capable of providing a variety of measurements at high time and space resolution. For additional information, visit the center’s web site at http://gulfstream.ou.edu/.

NATIONAL SEVERE STORMS LABORATORY (NSSL)

Located on OU’s North campus, the NSSL is a National Oceanic and Atmospheric Administration laboratory dedicated to improvement of our understanding of severe convective and mesoscale events. Areas of emphasis include forecasting and analysis techniques, radar development and applications, and applications of multi-scale numerical forecast models. Research assistantships are available through CIMMS and adjunct faculty at the NSSL supervise graduate student research in the School of Meteorology.

NATIONAL WEATHER SERVICE FORECAST OFFICE (NWSFO)

The NWSFO, a technologically advanced forecast facility co-located with the WSR-88D ROC on OU’s North Campus, is the first forecast office in the nation to be located on a university campus. Intern and temporary position opportunities are available for OU students. The School of Meteorology provides a special M.S. degree program with emphasis on forecasting for those interested in pursuing a career in the National Weather Service.

NATIONAL WEATHER SERVICE STORM PREDICTION CENTER

The NWS Storm Prediction Center is responsible for providing short-term outlooks and watches for severe thunderstorms, heavy rain, flash floods and winter storms over the United States. This information will be distributed to National Weather Service field offices in support of their hazardous weather watch function, as well as to external users. Because of the mission of the center, considerable collaborative efforts exist with National Weather Service field offices, NOAA laboratories, and programs in the College of Geosciences.

OKLAHOMA CLIMATOLOGICAL SURVEY (OCS)

The OCS is a dual-purpose research and service facility that provides climatic data and interpretation support and conducts research on basic scientific problems related to climate and climate change. The OCS manages the Oklahoma MesoNetwork, a network of more than 180 surface observing stations, and is located on the twelfth floor of the tower of the Sarkeys Energy Center.

WSR-88D RADAR OPERATIONS CENTER (ROC)

The WSR-88D ROC, co-located with the Weather Service Forecast Office, is a national training and support facility for the NEXRAD Program. The prototype WSR-88D radar is located on OU’s North Research Campus across from the NSSL, and the first operational WSR-88D radar system is also in Norman.

Special Facilities and Programs

Along with the Department of Geography and the School of Geology and Geophysics, the School of Meteorology is part of the College of Geosciences, which is housed in the Sarkeys Energy Center on the northeast corner of the Norman campus. The Sarkeys Energy Center is a spacious new building with classrooms, offices, and research laboratories in two floors underground and a 15-story tower. The University-based components of the Weather Center occupy floors 11 through 15 of the tower. The School of Meteorology is a full participant in college-wide activities and programs, including the annual Geosciences Day and several special events each year.

Laboratory facilities for meteorology include a basic synoptic meteorology laboratory and map room, a specially designed teaching laboratory/classroom, and a newly equipped student computer laboratory with 25 LINUX PCs.

Scholarships and Financial Aid

Depending on availability of funds, the School offers about 10-20 scholarships per year for each of its freshman, sophomore, junior and senior classes. They are primarily based on merit only and qualified students will receive application forms from the School in advance of the next academic year. The School of Meteorology encourages all applicants to seek University-wide scholarships and financial aid for which they may be eligible. The department offers graduate teaching and research assistantships to highly qualified applicants with undergraduate degrees in meteorology or atmospheric science, physics, mathematics, computer science, engineering, or other related fields. For information, please write to: Director, School of Meteorology University of Oklahoma 100 East Boyd, Rm. 1310 Norman, OK 73019-0470

Undergraduate Study

BACHELOR OF SCIENCE IN METEOROLOGY

For detailed semester by semester curriculum requirements, please consult: http://www.ou.edu/bulletins/degree-sheets/geosci/geosindx.htm.

Lower-Division Requirements

The lower division (1000 and 2000-level courses) requirements of 64-65 hours are to be met as follows:

Communications: 6 hours. English 1113 and 1213.

Foreign Language: 0 - 10 hours. Two courses in the same language (can be met by successfully completing 2 years of the same foreign language in high school).

Science and Mathematics: 34-35 hours. Physics 1311, 1312, 2514, and 2524; Chemistry 1315; Lower-Division Science Elective (one of GEOl 1114, ASTR 1504, CHEM 1415, BOT 1114, MBIO 2815, ZOO 1114); Computer Science 1313; Math 1823, 2423, 2433, and 2443. (Students must earn a grade of C or better in all CS, ENGR, MATH, METR, and PHYS courses that are direct prerequisites for METR courses.)

Humanities: 12 hours. History 1483 or 1493; one course from each of the following three fields: Understanding Artistic Forms, Western Civilization and Culture, Non-Western Cultures; three hours must be upper-division.

Behavioral and Social Sciences: 6 hours. PS 1113 and a Social Sciences Elective (to be chosen from the University-Wide General Education Approved Course List for Core III (Social Science); three hours must be upper-division.

Basic Meteorology Courses: 9 hours. METR 1111, 2014, and 2024. Other: 3 hours. Three hours of a faculty-advisor-approved course in the geosciences outside the major area must be included in the B.S. program. GEOL 1114 satisfies this requirement, or a geosciences course outside the major may be taken as a science elective or climatology elective.

Upper-Division Requirements

Communications: 3 hours. English 3153.

Engineering and Mathematics: 15 hours. Math 3113 and 4753 or METR 4303, plus an upper-division Math elective; and ENGR 3723. The upper-division Math elective may be replaced by a course in an area of concentration or minor.

Science Electives: 9 hours. (These electives may be replaced by courses required for an area of concentration or minor). Minimum of nine upper-division hours of faculty-advisor-approved courses in geosciences,
engineering, math, physical sciences and/or biological sciences or faculty-adviser-approved courses in the minor option.

**Meteorology: 31 hours.** METR 3113, 3123, 3213, 3223, 3613, 4133, 4231, 4424, 4433, 4911, 4922 and a meteorology or climatology elective.

**NOTE:** No more than 48 hours may be taken in one department of the college.

## Area of Concentration in Business

In recognition of the increasing job market in the private sector of meteorology, the School of Meteorology and the College of Business have joined to institute an area of concentration in business within the meteorology curriculum. A minimum of 12 upper-division credit hours of faculty-adviser approved coursework is required. These courses may be taken in lieu of the upper-division math elective and the nine credit hours of science in the undergraduate meteorology curriculum.

Required courses are MGT 3013 and MKT 3013, plus two electives to be chosen from B AD 4353, MGT 4363, MIS 3353, 3363, 3373, or 4413, or faculty-approved courses. It is important to understand that all required coursework for the area of concentration in business must be completed before any of the completed courses may be used in lieu of nine credit hours of science elective and three of math elective. Otherwise, the student reverts to the regular meteorology curriculum.

## Area of Concentration in Computer Science

The School of Meteorology has joined with the School of Computer Science in the College of Engineering to provide an area of concentration within the meteorology curriculum for students interested in further developing their skills in the use of computers in science, engineering, and business. These courses may be taken in lieu of the upper-division math elective and the nine credit hours of science in the undergraduate meteorology curriculum.

The required courses are CS 1813, CS 2334, CS 2413 and an elective among five to six upper division CS courses. These four courses substitute for the math elective and three science electives in the Meteorology curriculum. CS 1323 is also required but can replace CS 1313 in the curriculum.

## Minors

**MINOR IN BROADCASTING FOR MAJORS IN METEOROLOGY**

The minor involves 13 hours of JMC classes to be inserted into the three upper-division science and one upper-division mathematics elective in the meteorology curriculum. Ten JMC hours are upper-division and three JMC hours are lower-division. Course requirements include: COMM 2613 or DRAM 1603; JMC 2033, 3622, 3642. 3663 and 3773.

This option for meteorology students is not recorded on the transcript or diploma.

**OTHER MINORS AND DEGREES**

A minor in mathematics can be obtained by taking one 4000 level math course in addition to the normal meteorology curriculum (if MATH 4753 is taken). Minors in computer science, physics and other areas are available, normally requiring about 18 credit hours. The college-wide Hydrology minor is also available. The school is considering other areas of concentration as well.

Some students pursue dual degree programs in math, physics, computer science and other areas. Please consult a meteorology adviser for additional information.

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### Graduate Study

#### Admission

The general requirements for admission to the Graduate College must be fulfilled (see [http://gradweb.ou.edu](http://gradweb.ou.edu)). The application form for the School of Meteorology Graduate Program can be found under Graduate Information at the school’s web site. The School encourages applications from B.S. graduates in physics, math, computer science and other science and engineering disciplines as well as from meteorology majors. Students from other disciplines may need to take some undergraduate meteorology, math, and other courses depending on their background. Acceptance into the Graduate College does not guarantee admission into the School of Meteorology.

#### KNOWLEDGE EXPECTATIONS

Incoming graduate student in the School are normally expected to have a working knowledge of calculus, vector analysis, linear algebra, ordinary differential equations, partial differential equations, statistics, and computer programming (e.g. Unix and either FORTRAN or C). However, because of the diverse educational backgrounds of incoming students, some may need to complete courses for prerequisite material. This is usually completed during the first year. In particular, please note that a course in partial differential equations (or equivalent, such as a course on mathematical methods for physicists) is a prerequisite for one of the core classes, METR 5113. For further information, please consult the courses listings at [http://weather.ou.edu/courses.htm](http://weather.ou.edu/courses.htm) or contact the appropriate course instructor.

#### Master of Science in Meteorology

The student must complete the requirements for the master’s degree which include a minimum of 30 hours of coursework, including four hours credit for thesis research, or 32 hours of coursework in the nonthesis program. Choice of the nonthesis program requires approval of the department faculty. This program includes completion of a special research problem acceptable to the faculty adviser and two readers. All students present a seminar on their M. S. research.

A minimum of 21 hours of graduate-level meteorology must be included in the degree program. In addition, a minimum of 34 hours of meteorology (graduate and undergraduate) or acceptable equivalents must have been completed in order to qualify for the Master of Science in Meteorology.

#### M.S. CORE CURRICULUM

Students who wish to obtain the M.S. must satisfy the M.S. Core Curriculum requirement. The core consists of two required courses, METR 5113, Advanced Atmospheric Dynamics, and METR 5313, Advanced Synoptic Meteorology, and a choice of two out of three additional courses. These are METR 5213, Cloud and Precipitation Physics; METR 5223, Atmospheric Radiation; and METR 5503, Climate Dynamics. The M.S. student must obtain a grade of B or better in the two required courses and in two of the remaining three core courses. Normally, new graduate students will complete the core requirements in the first two semesters of enrollment in the program.

#### Master of Science in Professional Meteorology

This degree program is designed to prepare its graduates for employment in private industry or with other organizations whose mission is directed primarily toward customer service or product development. Prospective students must possess an undergraduate degree in meteorology, atmospheric science, or the equivalent, and meet the regular graduate admission standards for the School
of Meteorology. The degree requirements consist of 36 graduate credit hours including 15 hours in meteorology coursework, 12 hours in a secondary area of study, and nine hours of advisory committee approved electives. A project approved by the student’s advisory committee must also be completed. Specific oral and written requirements must be satisfied. Examples of possible secondary areas of study include computer science, decision science, operations research, statistics, GIS, MIS, electrical engineering, business, economics, hydrology, environmental science, and technical writing. Private companies and other interested organizations will be invited to sponsor students and assist in structuring a student’s course of study, which will include a year-long project of value to the sponsor. Additional information about the program can be obtained by contacting the School of Meteorology.

**Ph.D. Qualifying Examination**

Every student who wishes to pursue the Ph.D. degree must pass the Ph.D. Qualifying examination covering topics in the following five categories: dynamics, synoptic and mesoscale meteorology, climatology, physical meteorology, and analytic and computational tools. In each category, five questions are given, and the candidates must answer two of the questions. The answer to each questions is graded on a scale of 0 to 10. The criteria for passing the Ph.D. qualifying exam are:

- **Unconditional Pass** — An average of 7 or more over all five categories, with no category average less than 4.
- **Conditional Pass** — An average of 7 or more over all categories, but with at least one category average of less than 4. The candidate passes the exam upon retaking the categories for which the score was less than 4 and obtaining a score of 4 or more.
- **Remedial Pass** — An average of 6 or more but less than 7 or all five categories. The candidate passes the exam upon completing remedial actions that have been approved by a majority vote of the faculty. If the candidate’s average score on any category was less than 4, the remedial action will include retaking that category and obtaining a score of at least 4.
- **Unconditional Fail** — An average of less than 6 over all five categories. Category scores may be used in future exams if the category is not re-attempted.

**Doctor of Philosophy**

Students seeking the degree of Doctor of Philosophy through the School of Meteorology at the University of Oklahoma (hereafter referred to as candidate) must satisfy all general requirements set forth by the Graduate College as well as all particular requirements set forth by the School of Meteorology. The principal requirements of both are listed below. A complete and detailed list of requirements is available from the Graduate College and School of Meteorology.

1. The approved program of study must include a total of at least 90 post-baccalaureate hours, including courses taught in the classroom as well as hours of research, no less than 30 of which are from non-S/U graded courses. The remaining 60 hours comprises any combination of coursework at or above the 4000 level, including 6980 and 6990, as approved by the doctoral committee but with the following requirements:
   - no more than one half of the coursework for the doctoral degree, excluding research for the dissertation, may be S/U graded coursework;
   - of the 90 hours of coursework which are applied to the degree, at least 30 hours must be in the School of Meteorology;
   - continuous enrollment in METR 6980 (at least two hours each semester) is required after beginning 6980 until the degree is completed.

   It is the duty of the doctoral committee to ensure that the student has sufficient breadth of coursework that includes courses from other disciplines.

2. With the approval of the advisory committee, candidates may bypass the MS degree and enter the doctoral program directly. However, students are generally encouraged to complete an MS degree as an integral part of their doctoral education. The non-thesis MS degree option, subject to approval by the regular faculty, is an appropriate strategy for accelerated progress toward the Ph.D. while providing an advanced degree early in the doctoral program.

3. The number of transfer hours accepted for each candidate will be determined on an individual basis at the advisory conference, but cannot exceed 44 credit hours. A post-master’s course carrying a grade of less than B will not be accepted as transfer hours to count toward the doctoral degree. IN cases where the master’s degree program of less than 44 hours has been completed, a student may transfer up to 14 semester hours of post-master’s coursework or up to 14 hours from a second master’s degree (but not more than a total of 44 hours) toward a doctoral degree subject to constraints defined by the Graduate College.

4. When a doctoral student earns nine credit hours of grades C, D, or F in any combination, the student will be disenrolled from the doctoral program and is ineligible for admission to another doctoral program at the University of Oklahoma. However, this student can be considered for admission to a master’s program at the University of Oklahoma in which the student does not already hold a master’s degree.

5. Normally, graduate courses taken at the University of Oklahoma more than six years before admission or re-admission to a doctoral program cannot be applied toward the doctoral degree unless the courses are part of the completed master’s degree, all of which are to be used toward satisfying the doctoral requirements. In special cases, graduate courses more than six years old may be used if recommended and validated by the student’s doctoral committee and the appropriate graduate liaison and approved by the graduate dean.

6. With advisory committee approval, a student may apply up to 16 credit hours of 3000- and/or 4000-level courses, which carry graduate credit, toward the 90 hours required for the doctoral degree. A maximum of 12 credit hours of the 4000-level courses may be from the department offering the degree; no 3000-level courses from the department offering the degree may apply toward the degree.

7. After admission to the Graduate College, a student becomes a prospective candidate at the discretion of his/her advisory conference committee. The advisory conference is expected to be held during the candidate’s first semester as a doctoral student. Full candidacy is granted only upon successful completion of the General Oral and Written Examination.

8. Candidates must be in residence at the University of Oklahoma at least two full semesters, excluding summer sessions, and must be engaged in coursework or research activities approved by the doctoral advisory committee or committee chair.

9. Candidates must satisfactorily complete both the Qualifying and General Examination. A doctoral student who enters a University of Oklahoma graduate program with a bachelor’s degree in meteorology is expected to pass the General Examination within five calendar years of his/her first graduate registration at the University of Oklahoma. A doctoral student who enters the University of Oklahoma with a master’s degree in meteorology is expected to pass the General Examination within four calendar years of the student’s first graduate registration at the University of Oklahoma.

10. Candidates must demonstrate an ability to perform original and creative work of a caliber that will advance the state of knowledge available to the scientific community by satisfactorily completing a dissertation.

11. The candidate is normally expected to complete all degree requirements within five years of passing the general examination. When additional time is necessary and proper, the student’s doctoral committee can grant an extension of one year. Extensions beyond one year require approval of the graduate dean.
The University of Oklahoma is a doctoral degree-granting research university serving the educational, cultural, economic and health care needs of the state, region and nation. Created by the Oklahoma Territorial Legislature in 1890, the university is composed of campuses in Norman and Oklahoma City as well as the Schusterman Center in Tulsa. The university’s main campus and the offices of administration of the University of Oklahoma are located in Norman. The OU Health Sciences Center, which is located in Oklahoma City, is the headquarters for the seven professional colleges and offers programs at the University of Oklahoma–Tulsa. OU-Tulsa is composed of the Schusterman Center, where the majority of OU programs serving Tulsa are located; the OU/OSU Research and Graduate Education Center, a collaborative effort to provide graduate education and research programs to the Tulsa metropolitan area; and several clinics and hospitals. OU enrolls almost 29,000 students, has approximately 1,900 full-time faculty members, and has 19 colleges offering 154 majors at the baccalaureate level, 152 majors at the master’s level, 74 majors at the doctoral level, eight majors at the first professional level, and five graduate certificates. The university’s annual operating budget is more than $1 billion. The University of Oklahoma is an equal opportunity institution.

The Graduate College is the center of advanced study, research, and creative activity at the University. Faculty and students share an obligation to achieve greater knowledge in their chosen fields, to add to that knowledge, and to present it to the scholarly community. Students were first accepted at the University of Oklahoma in the fall of 1892. Graduate instruction was offered as early as 1899 and the first master’s degree was conferred in 1900. The Graduate School was formally organized in 1909 and the first doctoral degree was awarded in 1929. The name was changed to Graduate College in 1942. The Graduate College has greatly expanded its degree programs and the enrollment of graduate students in the past three decades. In addition to the Doctor of Philosophy, the University offers the Executive Doctor of Education, Doctor of Engineering, and Doctor of Musical Arts. Interdisciplinary degree programs are also available at both the master’s and doctoral levels.

Courses may also be selected from the offerings at the University of Oklahoma Health Sciences Center, located 19 miles away in Oklahoma City and in Tulsa. The OU Health Sciences Center additionally offers graduate degrees both at the master’s and doctoral levels. Those interested in health-related fields should consult the Graduate Catalog of the OU Health Sciences Center.

The Graduate College strives to develop in each student a firm grasp of a chosen field, the skills and methods of research, and the ability of independent thought. To this end, the campus provides excellent library, laboratory, and learning facilities as well as a close association with scholars and research investigators.
Graduate Programs for Academic Excellence

Private donations have enabled the Graduate College to provide fellowships and scholarships in designated areas. Among these are the Kenneth L. Hoving Fellowship, Hudson Fellowship, McNair Graduate Fellowship, National Science Foundation Fellows, OU Graduate Alumni Fellowship, Mr. and Mrs. W. O. Wethington Scholarship and Fellowship, and Graduate Foundation Fellowships for outstanding graduate students.

Dissertation and Graduate Teaching Awards are given annually to reward excellence in dissertation research and teaching, respectively. The awards include a certificate and a cash prize.

The Graduate College and the Graduate Student Senate sponsor an annual event wherein which graduate students display posters describing current research projects. Cash prizes and certificates are awarded for winning posters.

For more information on these programs and others that may be available, please contact the Graduate College, Robertson Hall, 731 Elm Avenue, Norman, OK 73019-2115, (405) 325-3811 or visit our Web site at http://gradweb.ou.edu.

Research Programs

Research is an increasingly critical dimension of the mission of the University of Oklahoma. It is vital to the growth, health, and progress of the state of Oklahoma, the region, and the nation. In fiscal year 2003 grants and contracts were awarded in excess of $118 million at the OU campus in Norman.

Participation in research and creative activity projects is fundamental to a graduate student’s training and development. Various projects that support graduate students are conducted in all graduate programs offered at the University. A few of the funded projects are described briefly below. Information about current research projects is available from academic departments.

Graduate students in the Department of Chemistry and Biochemistry have opportunities to participate in research activities funded by the National Science Foundation’s EPSCor program, which supports the Center for Photonic and Electronic Materials and Devices. This Center is in its third three-year award. It supports six graduate students per year to assist in maintaining and operating selected research facilities both multidisciplinary in character and multi-university in use. The Center for Photonic and Electronic Materials and Devices brings together research programs in semiconductors and polymers at the University to form a nationally significant research and technology center. Semiconductors programs utilize state-of-the-art techniques that permit the controlled growth of new materials and novel structures, followed by detectors and a variety of photonic devices ranging from the blue to the far-infrared regions of the spectrum, that have numerous applications in the optics and electronic industries. The second major emphasis of the Center is polymers with unusual electrical and optical properties. This research focuses primarily on conducting polymers with applications varying from high energy density batteries through display systems to xerography.

Grants and cooperative agreements with Centers such as the Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) and the Center for the Analysis and Prediction of Storms (CAPS) in the School of Meteorology provide support for numerous other graduate students. The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS), funded through the National Oceanic and Atmospheric Administration (NOAA), (a) provides research on mesoscale atmospheric systems associated with a wide variety of severe environmental storms, short-range prediction problems, and meteorological phenomena of the Great Plains; (b) improves the effectiveness of research through close collaboration with the NOAA National Severe Storms Laboratory (NSSL); and (c) provides a center where scientists working on problems of mutual interest may come together to work advantageously in an environment different from that already provided in the federal and University structure. The Center for the Analysis and Prediction of Storms (CAPS), which was established as one of the first National Science Foundation Science and Technology Centers, (1) maintains the unifying intellectual theme of the advancement of basic knowledge in science and technology in the prediction of storms; (2) provides educational and research opportunities for undergraduate and graduate students; post-doctoral researchers, industrial fellows, faculty members from other colleges and universities, and others in the area of storm prediction and analysis, and (3) engages in and facilitates knowledge transfer and significant intellectual exchanges with other groups; for example, those in the private sector, federally supported laboratories, state and local governments, and other academic institutions.

Many other research opportunities exist for graduate students at the university. Graduate students are encouraged to contact the graduate liaison in their academic unit for information on research projects that will match their studies and for opportunities to join these research teams.

Student Services

Graduate students will find services to meet their needs through the Center for Student Life, located on the third floor of the Oklahoma Memorial Union, (405) 325-6873. In addition to assisting and advising the Graduate Student Senate, this office develops programs and activities for graduate students, including special orientations, advises the Commuter Student Association, and operates Evening Student Services. Additional assistance is also provided, including African-American, American Indian, Asian American and Hispanic American student advisors; International Student Services; Disabled Student Services; and an office to assist veterans and adults returning to school. The Center for Student Life is committed to helping students succeed at the University of Oklahoma.

Graduate students are encouraged to contact the graduate liaison in their academic unit for information on research projects that will match their studies and for opportunities to join these research teams.

Use of Human Subjects in Research

All research involving human subjects or the use of data generated via human subjects research, which will result in publication or presentation, must be reviewed and approved by the University of Oklahoma-Norman Campus Institutional Review Board (OU-NC IRB) prior to subject recruitment and data collection. All human subjects research to be performed by faculty, staff or students of the University of Oklahoma Norman campus, Tulsa campus, or conducted by Cameron University faculty, staff or students must be reviewed by the OU-NC IRB. The primary role of the OU-NC IRB is to determine if the rights and welfare of human subjects who volunteer to participate in research studies are adequately protected and to ensure that adequate informed consent procedures are used.

The University of Oklahoma Norman campus policy for the protection of human subjects in research activities and IRB application materials can be accessed at the following:

Policy: http://research.ou.edu/policy/IRB_Human_Subjects_Policy.html
Form: http://research.ou.edu/Forms/InternalFormsIndex.htm#forms_irb

If you have questions about compliance or the IRB approval process, you may contact the Office of Research Services at (405) 325-4757 or e-mail irb@ou.edu.

Patent Policy

The University Intellectual Property Policy provides that all discoveries and/or inventions, patentable or unpatentable, that are made or conceived of while the inventor is a student at the university with substantial use of university facilities not normally made available to students or are made with funds provided by or through the university, are the property of the university.
policy provides protection to both the university and the inventor and offers substantial benefits to the inventor. Copies of the Intellectual Property Policy may be obtained from the Office of Technology Development, 201 Evans Hall, (405) 325-3800, or viewed online at www.otd.ou.edu.

Students who made an invention or discovery under the stated conditions should contact the Office of Technology Development as soon as possible (201 Evans Hall, (405) 325-3800).

Science and Public Policy Program

The Science and Public Policy Program is an interdisciplinary unit in the Sarkeys Energy Center that conducts applied research on issues involving science, technology, and society. The Program was created in 1970 to investigate the roles of science and technology as major driving forces behind social change and as important aspects of public policy.

Science and Public Policy faculty pursue research on current and emerging issues in the areas of energy, environment, and technology policy. Other faculty from across the University are appointed and supported as needed to work on specific projects. Graduate students from a wide variety of departments also form an integral part of the research program. Recent graduate students supported by Science and Public Policy have been recruited from chemical engineering, environmental science, geography, political science, public administration, and regional and city planning.

Science and Public Policy is not a degree-granting unit but does have a strong educational component. The core faculty in Science and Public Policy also hold joint appointments with other academic departments. These faculty teach and advise students; as well as direct theses and dissertations. Program faculty routinely incorporate the results of their research into classroom instruction.

For further information about Science and Public Policy research activities, capabilities, and resources, please contact the following: Science and Public Policy Program, Director; Sarkeys Energy Center, 100 E. Boyd, Room 5202; Norman, OK 73019-0628; or call (405) 325-3821.

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**Graduate Degrees Offered**

**Master's Degrees and Programs of Study**

General requirements that apply to all of these degrees appear later in this bulletin. Special requirements that apply to individual degrees are available in the academic unit and/or the Graduate College. The University of Oklahoma confers the degrees of:

- Master of Accountancy (M.Acc.)
- Master of Architecture (M.Arch.)
- Master of Arts (M.A.)
- Master of Arts in Art (M.A. in Art)
- Master of Arts in International Studies (M.A. in Intl. St.)
- Master of Business Administration (M.B.A.)
- Master of Education (M.Ed.)
- Master of Environmental Science (M.Env.Sc.)
- Master of Fine Arts in Art (M.F.A. in Art)
- Master of Fine Arts in Dance (M.F.A. in Dance)
- Master of Fine Arts in Drama (M.F.A. in Drama)
- Master of Health Administration (M.H.A.)
- Master of History (M.Hist.)
- Master of Landscape Architecture (M.L.A.)
- Master of Liberal Studies (M.L.S.)
- Master of Library and Information Studies (M.L.I.S.)
- Master of Music (M.Mus)
- Master of Music Education (M.Mus.Ed.)
- Master of Natural Science (M.N.S.)
- Master of Professional Writing (M.Prof. Wr.)
- Master of Public Administration (M.P.A.)
- Master of Public Health (M.P.H.)*
- Master of Regional and City Planning (M.R.C.P.)
- Master of Science (M.S.)

- Master of Science in Architectural Urban Studies (M.S. in Arch. Urban St.)
- Master of Science in Construction Administration (M.S.C.A.)
- Master of Science in Knowledge Management (M.S. in Know. Mgt.)
- Master of Science in Management Information Systems (M.S. in MIS)
- Master of Science in Meteorology (M.S. in Metr.)
- Master of Science in Natural Gas Engineering and Management (M.S. in Natural Gas Eng. & Mgmt.)
- Master of Science in Professional Meteorology (M.S. in Prof. Metr.)
- Master of Social Work (M.Soc.Wk.)
- Master of Science in Telecommunications Systems (M.S. in Tel. Sys.)

**Master of Arts**

This degree is conferred upon students whose major work is completed in one of the following academic units. All degree requirements are available from the Graduate College or from the various academic units.

- Anthropology
- Communication
- Drama
- Economics
- English
- French
- Geography
- German
- History
- History of Science
- Journalism and Mass Communication

**Master of Education**

This degree is conferred upon students whose major work is completed in one of the following academic units. All degree requirements are available from the Graduate College or from the various academic units.

- Adult and Higher Education
- Community Counseling
- Educational Education Administration, Curriculum and Supervision
- History, Philosophy and Social Foundations of Education
- Educational Studies
- Instructional Leadership and Academic Curriculum
- Instructional Psychology and Technology
- School Counseling
- Special Education

**Master of Music**

This degree is conferred upon students whose major work is completed in one of the following academic units. All degree requirements are available from the Graduate College or from the School of Music.

- Conducting — Instrumental and Vocal/General

**Master of Music Education**

This degree is conferred upon students whose major work is completed in one of the following academic units. All degree requirements are available from the Graduate College or from the School of Music.

**Norman Campus**

- Aerospace Engineering
- Bioengineering
- Botany
• Chemical Engineering
• Chemistry and Biochemistry
• Civil Engineering
• Computer Science
• Electrical Engineering
• Engineering
• Engineering Physics
• Geological Engineering
• Geology
• Geophysics
• Health and Sport Sciences
• Industrial Engineering
• Interdisciplinary Studies
• Mathematics
• Mechanical Engineering
• Microbiology
• Petroleum Engineering
• Physics
• Psychology
• Zoology

Health Sciences Center*
• Allied Health Sciences
• Biochemistry and Molecular Biology
• Biological Psychology
• Biostatistics and Epidemiology
• Cell Biology
• Communication Sciences and Disorders
• Genetic Counseling
• Health Administration and Policy
• Health Promotion Sciences
• Microbiology and Immunology
• Neuroscience
• Nursing
• Nutritional Sciences
• Occupational and Environmental Health
• Orthodontics
• Pathology
• Periodontics
• Graduate Pharmaceutical Sciences
• Physiology
• Radiological Sciences
• Rehabilitation Sciences

* Offered only at the OU Health Sciences Center, Oklahoma City, OK.

MASTER OF SPECIALTY
This degree is determined by the program of study. The degree is conferred upon students whose major work is completed in one of the following areas. All degree requirements are available from the Graduate College or from the various academic units.

• Accountancy
• Architecture
• Architectural Urban Studies**
• Art
• Art History
• Business Administration
• Construction Administration
• Dance
• Drama
• Environmental Science
• Human Relations
• International Relations
• Knowledge Management
• Landscape Architecture
• Liberal Studies
• Library and Information Studies*
• Management Information Systems
• Meteorology

ACCELERATED DEGREE PROGRAMS
The Accelerated dual degree program was established in 1994 to provide highly motivated and academically outstanding students with the opportunity to complete an undergraduate and graduate degree in an accelerated fashion. Currently, the University offers accelerated undergraduate/graduate degrees in the seven areas listed below. Admission into these programs is granted by the academic unit and the Graduate College. For additional information, please contact the appropriate department.

• Bachelor of Arts and Master of Arts in English
• Bachelor of Science and Master of Science in Civil Engineering
• Bachelor of Science in Computer Engineering and Master of Science in Computer Science
• Bachelor of Science in construction Engineering and Master of Science in Electrical Engineering
• Bachelor of Science and Master of Science in Environmental Sciences
• Bachelor of Science and Master of Science in Information Technology
• Bachelor of Science and Master of Science in Mechanical Engineering

DUAL DEGREE MASTER’S PROGRAMS
Dual degree programs allow students to simultaneously pursue degrees in two fields of study. To obtain a dual degree, the student must satisfy the admission, course requirements, and examination requirements of both programs.

The total number of hours in such dual degree programs normally represent at least 80 percent of the hours required for the two degrees taken separately. Dual degree programs are offered in:

• Bachelor and Master of Accountancy
• Juris Doctor/Master of Business Administration
• Master of Library and Information Studies/Master of Education
• Master of Library and Information Studies/Master of Arts (History of Science)
• Master of Business Administration/Master of Management, ESC-Toulouse
• Master of Business Administration/Master of Library and Information Studies
• Master of Business Administration/Master of Science (Mathematics)
• Master of Business Administration/Master of Arts (French, German or Spanish)
• Master of Business Administration/Master of Science in Construction Administration
• Master of Business Administration/Master of Science (Pharmacy Administration)
• Master of Business Administration/Master of Science (Health Administration)
• Master of Business Administration/Master of Public Health
• Health Sciences Center*
• Master of Public Health/Master of Public Administration
• Master of Public Health/Juris Doctor
• Master of Science/Juris Doctor (Occupational and Environmental Health)
GENERIC DUAL DEGREE MASTER’S PROGRAMS

In addition to any of the University approved dual degree master’s programs, a student may seek dual master’s degrees in any two areas of the student’s choosing. To pursue the generic dual master’s degree, the student must be admitted to both programs before 12 credit hours of program work have been completed in either program.

The requirements for the program are:
1. All degree requirements, including research tools, foreign languages, comprehensive examination, thesis and deficiencies, must be met for both programs.
2. Up to 20% percent of the total graduate credit hours required for both degrees taken individually may be double counted, e.g., counted as credit for both master’s programs.
3. The double-counted courses must be appropriate for each degree.
4. The student must graduate with degrees in the same semester.

For Example:
MS (Communication) ...........................................32 credit hours
MHR .................................................................36 credit hours
Total hours for both programs................................68 credit hours
Less 20% Double double-counted .......................(14) credit hours
Total hours for dual degree ..................................54 credit hours

SPECIAL MASTER’S DEGREE

The Special Master’s degree option is for those students whose education goals cannot be met by one of the existing master’s degrees offered. Consequently, any proposed Special Master’s Degree program must be interdisciplinary in nature. All the various components of a special master’s degree must be integrated so the program presents a well-defined and coherent education experience. The integration can most appropriately be accomplished through research that culminates in a thesis.

Requirements
An applicant for a Special Master’s degree must be a graduate student in full standing in the Graduate College at the time of the application. A thesis is required for all Special Master’s degrees.

Request Procedure
To have a special program considered by the Graduate Council, a student must submit a completed Special Master’s Degree Application, along with the additional information requested on the first page of the application to the Graduate Dean before 12 hours of the proposed program have been completed. A student wishing to seek a Special Master’s degree must provide the following information:
1. a two-page rationale for the program,
2. a proposed degree designation,
3. a list of proposed courses,
4. a research proposal,
5. all previous transcripts, and
6. an advisory committee statement signed by at least three graduate faculty members who have agreed to serve as the advisory committee.

The chair of the Advisory Committee advisory committee should be from the discipline in which most courses are to be taken. When this information is submitted to the Graduate College, a committee of the Graduate Council will review the proposal and make a recommendation to the full Council. The Graduate Council will then decide whether or not to approve the proposed Special Master’s degree program.

If the Graduate Council approves the proposal, it will constitute the student’s program of study. Requests for changes must be submitted to and approved by the Graduate Dean. If the Graduate Council does not approve the proposal, the student will remain in the traditional master’s track.

The final entry on the transcript will show the special title of the program with the proviso that if there is an overlap with an existing program designation on campus, the director/chair of that program must approve the special degree program title selected by the student.

Subsequent procedures follow the rules of the Graduate College, except that the Advisory Committee is not constrained to follow the specific degree requirements of a particular school or department.

Doctoral Degrees and Programs of Study

The University of Oklahoma confers the degrees of Doctor of Philosophy (Ph.D.), Executive Doctor of Education (Executive Ed.D), Doctor of Musical Arts (D.M.A.), Doctor of Engineering (D.Eng.), and Doctor of Public Health* (Dr. P.H.). General requirements that apply to all of these degrees appear later in this bulletin. Special requirements that apply to individual degrees are available in the academic unit and/or the Graduate College.

DOCTOR OF PHILOSOPHY

The Doctor of Philosophy is offered in the following program areas:

Norman Campus
- Adult and Higher Education
- Aerospace Engineering
- Anthropology
- Botany
- Business Administration
- Chemical Engineering
- Chemistry
- Civil Engineering
- Communication
- Computer Science
- Counseling Psychology
- Economics
- Education Administration-Curriculum Supervision
- Educational Studies
- Electrical Engineering
- Engineering
- Engineering Physics
- English
- Environmental Science
- French
- Geography
- Geological Engineering
- Geology
- Health and Exercise Science
- History
- History of Science
- Industrial Engineering
- Instructional Leadership and Academic Curriculum
- Instructional Psychology and Technology
- Interdisciplinary Studies*
- Mathematics
- Mechanical Engineering
- Meteorology
- Microbiology
- Music Education
- Petroleum Engineering
- Philosophy
- Physics
- Political Science
- Psychology
- Sociology
- Spanish
- Special Education
- Zoology

Health Sciences Center
- Allied Health Sciences
- Biochemistry and Molecular Biology
- Biological Psychology
- Biostatistics and Epidemiology
- Cell Biology
- Communication Sciences and Disorders
- Health Administration and Policy
- Health Promotion Sciences
- Medicine*
- Microbiology and Immunology
DOCTOR OF MUSICAL ARTS
The Doctor of Musical Arts is offered on the Norman campus in the following program areas:
- Conducting (Instrumental and Choral)
- Composition
- Organ
- Piano
- Voice
- Wind, Percussion, Strings

EXECUTIVE DOCTOR OF EDUCATION
- Education Administration, Curriculum & and Supervision

Interdisciplinary Doctoral Program
The authority for designing the doctoral degree in interdisciplinary areas is vested with the Graduate Council. This by no means implies the relaxation of standards and levels of performance, but it frees the candidate from the need to satisfy specific department or school requirements that, in the opinion of the Graduate Council and an advisory committee, may not be particularly relevant to the program.

Inasmuch as regular programs require coursework in related areas, an interdisciplinary program must be defined in a way that would exclude conventional programs even if they require some interdepartmental or intercollegiate coursework. To this end, an interdisciplinary program is defined as one in which the candidate may take less than the normal number of courses required in a particular Ph.D. program.

Request Procedure
1. The candidate for this program must apply and be admitted in full standing as a doctoral student to a graduate program authorized by the State Regents to offer the doctoral degree. Admission to such a program does not necessarily imply a subsequent acceptance into the interdisciplinary program.
2. The candidate must complete the master’s degree or its equivalent before petitioning for the interdisciplinary doctoral program.
3. To be admitted into the interdisciplinary program, the candidate must submit a petition to the Graduate Dean consisting of:
   - the completed Interdisciplinary Ph.D. Program Application
   - a statement justifying the need for investigation in the proposed area;
   - a list of courses to be included in the program of study and a rationale for the selected courses;
   - how this program significantly differs from existing programs;
   - a research proposal; and
   - a statement about the program from the proposed members of the Advisory Committee/advisory committee.
4. The Graduate Council must approve the rationale, courses, research proposal and committee members. The Graduate Council may return the proposal to the student for revision if it is not acceptable. If the Graduate Council does not approve the proposal, the student will remain in the traditional degree program.
5. The Graduate Dean must authorize any changes in an approved interdisciplinary doctoral program.
6. The majority of the post-master’s courses leading to the interdisciplinary degree must be taken in academic units authorized to offer the doctoral degree. Credit received for Research for Doctor’s Dissertation cannot be used to meet the preceding requirements.
7. The final entry on the transcript will show the special title of the interdisciplinary program with the proviso that if there is an overlap with an existing program designation on campus, the director/chair of that program must approve the special degree program title selected by the student.
8. Subsequent procedures follow the rules of the Graduate College, except that the advisory committee is not constrained to follow the specific degree requirements of a particular school or department.

Certification Programs

GRADUATE CERTIFICATES IN INTERNATIONAL STUDIES
International Academic Programs in the International Programs Center administers interdisciplinary graduate certificate programs in International Policy Studies and in International Regional Studies. These certificate programs are intended to enhance students' graduate education by adding a significant interdisciplinary international component to their degree work in a conventional academic discipline or professional program. Any student pursuing a post-baccalaureate degree at the University of Oklahoma is eligible to enroll in these graduate certificate programs, each of which require 15 credit hours in designated international subjects. Certificates are awarded when students complete the requirements for the graduate degree programs in which they are enrolled. Courses completed for those degrees may also may count toward the requirements for a certificate, subject to certain restrictions.

For additional information on course requirements, contact the Director of the School of International and Area Studies Programs, International Programs Center, Whitehand Hall, Room 400, (405) 325-1584.

Graduate Certificate in International Policy Studies
Students who pursue this certificate are encouraged to study institutions and economic and social phenomena from a worldwide rather than a regional perspective. Thus, the courses that fulfill this certificate offer this perspective without being limited to the study of specific regions or content areas. The Certificate in International Policy Studies does not require proficiency in a foreign language.

Graduate Certificate in International Regional Studies
The Certificate in International Regional Studies encourages the specialized study of cultural, social, and political aspects of particular regions of the world or particular countries. Each student will have an individualized program, subject to the approval of the International Studies Certificate Committee. Proficiency in a foreign language relevant to the region of concentration is required.

COLLEGE TEACHING CERTIFICATE
The College Teaching Certificate is offered by the Adult and Higher Education (EDAH) program at the University of Oklahoma and has been authorized by the Regents of the University of Oklahoma. The certificate is intended primarily for graduate students who are preparing for college-level teaching careers, regardless of the discipline in which they plan to teach.

While most new faculty members feel comfortable in regard to their knowledge of the discipline in which they have prepared, it is not uncommon to feel unprepared for the demands of teaching and unfamiliar with the nature of an academic environment. The College Teaching Certificate addresses this need in two ways. First, it ensures that the student has teaching experience at the college level, as well as an opportunity to discuss and analyze the experience. Second, it provides instruction regarding the nature of the adult learner, instructional strategies that can be utilized in a variety of teaching situations, and an understanding of the college environment and the nature of the professoriate in American higher education.

Anyone interested in additional information about the program, should contact Dr. David Tan, the program coordinator in the Department of Educational Leadership and Policy Studies, at (405) 325-5986.

STATE DEPARTMENT OF EDUCATION CERTIFICATION PROGRAM
The University of Oklahoma offers State Department of Education approved graduate-level certificate programs for superintendents, elementary and secondary school administrators, reading specialists, library media
Admission Information

Please refer to the “Admissions, Enrollment, and Graduation” chapter of this catalog for specific information regarding general admission criteria, as well as grade definition, and other general information. Only information specific to the Graduate College is covered in the text that follows.

ADMISSION APPLICATION

How to Obtain an Application
For a University of Oklahoma Application for Admission, contact the Graduate College:

Online: www.gradweb.ou.edu
By phone: (405) 325-3811
By mail or in person: Graduate College
University of Oklahoma
731 Elm Street
Norman, OK 73019-2115

By e-mail: gradinfo@ou.edu
By Fax: (405) 325-5346

Admission Criteria
The admission process assesses the likelihood that an applicant will succeed in, and benefit from, a particular academic program.

GRADUATE COLLEGE ADMISSION CRITERIA

The Graduate Dean governs admission and enrollment in the Graduate College. Except for those in unclassified status, the student must be recommended for admission by an academic unit. All admissions to the Graduate College require that the student hold a baccalaureate degree or equivalent from an accredited college or university. Undergraduates in their final semester at accredited colleges and universities may apply for admission to the Graduate College. The University of Oklahoma uses the following 4.00 scale to calculate grade point averages; that is, an:

- A = 4.00 points per credit hour
- B = 3.00 points per credit hour
- C = 2.00 points per credit hour
- D = 1.00 point per credit hour
- F = 0.00 points per credit hour

If an applicant’s prior college or university uses a different scale, the grade point average is converted to a 4.00 scale to determine whether the applicant meets University of Oklahoma grade point admission requirements.

The grade point average is based on the following:
- the semesters in which the last 60 credit hours of letter graded baccalaureate degree work occurred at an accredited college or university, or
- a minimum of 12 letter graded credit hours of graduate credit at an accredited college or university if no master’s degree has been earned, or
- the overall master’s degree plus any post-master’s credit earned.

If the last 60 hours cannot be identified from the applicant’s transcript, the entire transcript will be evaluated for admission.

SPECIAL CONSIDERATIONS

For Marginal Undergraduate Records

The University of Oklahoma uses the following 4.00 scale to calculate grade point averages; that is, an:

- A = 4.00 points per credit hour
- B = 3.00 points per credit hour
- C = 2.00 points per credit hour
- D = 1.00 point per credit hour
- F = 0.00 points per credit hour

If an applicant’s prior college or university uses a different scale, the grade point average is converted to a 4.00 scale to determine whether the applicant meets University of Oklahoma grade point admission requirements.

The grade point average is based on the following:
- the semesters in which the last 60 credit hours of letter graded baccalaureate degree work occurred at an accredited college or university, or
- a minimum of 12 letter graded credit hours of graduate credit at an accredited college or university if no master’s degree has been earned, or
- the overall master’s degree plus any post-master’s credit earned.

If the last 60 hours cannot be identified from the applicant’s transcript, the entire transcript will be evaluated for admission.

For Marginal Graduate Records

Applicants whose graduate records do not meet admission standards may petition the Graduate Dean to consider their undergraduate record in the admission decision.

The undergraduate enrollments must be related to the proposed course of study, at the junior level or higher, for 12 or more credit hours, and the applicant must have maintained at least a 3.0 grade point in the related areas.

In evaluating the petition, the Dean will consider such factors as the number of graduate hours earned, the grade point on those hours, and the previous and proposed course of study.

ACADEMIC UNIT ADMISSION CRITERIA

Many academic units require additional materials such as letters of recommendation and/or test scores before the admission application can be considered. Applicants should consult with the graduate liaison of the academic unit to which they are applying in order to determine these additional requirements.
SUPPLEMENTAL ADMISSION CRITERIA

Academic units, with the approval of the Graduate College, may develop supplemental admission criteria that can be used in lieu of a previously marginal academic record. Supplemental admission criteria are available to an applicant provided that at least three calendar years have elapsed since the applicant’s last college enrollment. Some academic units may have longer periods.

Supplemental admission criteria reflect the specific skills and academic potential that students need in order to succeed in the degree program. These criteria assist in the evaluation of applicants who would not ordinarily be admissible to the Graduate College. In considering admission under these criteria, the Dean will take into account the applicant’s entire academic record, including the relevance of any supplemental indices or credentials to the applicant’s proposed enrollments.

In some cases, such as older learners returning to the University or other non-traditional students, it may be appropriate to supplement the traditional evidence evaluated by the Graduate College with other materials such as recent GRE scores, professional experiences, workshops or seminars.

Applicants petitioning for admission based on supplemental admission criteria must include a proposed plan of study for their first 12 hours of enrollment. Each instructor must consent to the proposed enrollments. Where the proposed enrollments span more than one semester, the required permissions for subsequent semesters must be obtained prior to the start of each semester.

For additional information, please contact the academic unit of interest to determine if it has approved supplemental admission criteria.

CONDITIONS OF SUPPLEMENTAL ADMISSION

Students admitted under the supplemental admission criteria must maintain at least a 3.0 grade point on their first 12 hours of enrollment and earn no grade of C, D, F, or U.

International Admission

Graduate applications and admission credentials from international applicants are processed in the same manner as described above.

ENGLISH PROFICIENCY

English proficiency requirements is discussed in detail in the chapter, “Admissions, Enrollment, and Graduation.” An international applicant for whom English is a second language must provide documentation of proficiency in English before being admitted to the Graduate College.

Proficiency can be demonstrated through the following methods:

- the applicant has earned a baccalaureate degree from an accredited U.S. college or university;
- the applicant has successfully completed at least 24 hours from an accredited college or university in which English is the native language followed by at least 500 on the TOEFL or 173 on the computer-based TOEFL; or
- the applicant has successfully completed immediately prior to admission a minimum of 12 weeks of study at an approved English language center or program operated by an institution of higher learning or a private school approved by the Oklahoma State Regents for Higher Education; or;
- the applicant presents at least a 550 TOEFL or a 213 score on the computer-based TOEFL.

The Graduate Dean may conditionally admit students who have been recommended for admission to a degree program and who show exceptional academic promise provided that their TOEFL is at least 500.

FINANCIAL ASSISTANCE

An international student may apply for aid offered by Financial Aid Services for additional information.

Types of Admission

The University of Oklahoma recognizes the following types of admission:

Admission in Full Standing — the applicant has met all University of Oklahoma admission requirements.

Conditional Admission — this status is generally used for applicants who meet most of the admission requirements and who show the potential for academic success in graduate school.

- Low Grades — the applicant has a low grade point average.
- Supplemental Admission — the applicant meets the approved supplemental admission requirements.
- Coursework Deficiencies — the applicant meets all admission requirements but is lacking courses relevant to the proposed field of study.
- Incomplete Credentials — the applicant lacks complete academic credentials.

Unclassified Admission — this status is generally used for students who want to take graduate courses with no intent to pursue a graduate degree; and students who have not yet chosen an academic unit of study.

- Full Admission — the applicant meets all University of Oklahoma admission requirements.
- Low Grades — the applicant has a low grade point average.
- Supplemental Admission — the applicant meets the approved supplemental admission requirements.

Special Student Status — this status is generally used for students who wish to enroll in a workshop, etc.; and applicants who are attempting to meet the admission requirements.

Certification Status — this status is generally used for students seeking professional certificates.

ADMISSION IN FULL STANDING

Applicants with a Baccalaureate Degree

An applicant may be admitted to the Graduate College in full standing if the applicant:

- has earned a baccalaureate degree or the equivalent from an accredited University or College and
- has earned at least a 3.0 grade point average through the semester in which the last 60 credit hours of letter-graded undergraduate bachelor’s coursework was earned, and
- is recommended for admission in full standing by the appropriate academic unit, and
- is accepted for admission by the Graduate Dean.

The admission recommendation may be based on many factors in addition to the applicant’s grade point average.

Applicants with Previous Graduate Studies

An applicant may be admitted to the Graduate College in full standing if the applicant:

- has either received a master’s degree or completed 12 semester hours of letter-grade graduate work at an accredited college or university, and
- has accumulated at least a 3.0 average in all graduate-level work and
- is recommended for admission in full standing by the appropriate academic unit and
- is accepted for admission by the Graduate Dean.

The admission recommendation may be based on many factors in addition to the applicant’s grade point average.

CONDITIONAL ADMISSION

An applicant who does not qualify for admission in full standing may be conditionally admitted to a degree program. Conditional admission to a degree program is contingent on the recommendation of the academic unit and approval of the Graduate Dean.

Special Requirements

Students who are admitted conditionally may not earn a grade of D, F or U during the period of the conditional admission.
Low Grades
Admission will depend heavily on other indices of the student’s ability to do successful graduate-level work. These might include, but are not limited to, strong performance on standardized tests, high grade point average in the major and/or subsequent experiences that are clearly indicative of strong academic ability. The graduate liaison must provide the Graduate College with a Statement of Conditional Admission (Low Grades) form, which explicitly outlines the first 12 hours of letter-graded graduate coursework that the student must take, and the time period for completion of these hours. The Graduate College must approve the Statement of Conditional Admission. If approved by the Graduate College and admission is granted, a copy of the statement is included with the admission letter sent to the student.

COLLEGE SENIORS
A college senior who qualifies for conditional admission to the Graduate College due to low grades will not receive a final decision on conditional admission until the complete undergraduate transcript is available for review.

MEETING THE CONDITIONS
When the student has completed the specified courses with grades that meet the minimum level specified in the terms of the conditions of admission, the student will be changed to full standing in a degree program. The Graduate College will carefully monitor the student’s academic performance. The student must earn at least a 3.0 grade point average in the first 12 hours of letter-graded OU coursework taken after admission to the Graduate College.

Students who earn an excessive number of grades of “I” or “W” during the period of conditional admission may be subject to de-enrollment. Students who accumulate more than 18 hours of graduate coursework and have not fulfilled the terms of the conditional admission may be subject to de-enrollment. Students must maintain the required grade point average on all coursework, undergraduate or graduate, attempted after admission to the Graduate College. Applicants with a 2.75 to 3.0 grade point average through the semester in which the last 60 credit hours of letter-graded undergraduate bachelor’s degree coursework occurred at an accredited college or university, may qualify for conditional-low grades admission. Failure to comply with the requirements listed in the Statement of Conditional Admission will result in dismissal of the student.

Coursework Deficiencies
Academic units may recommend conditional admission for an applicant who holds a baccalaureate degree or the equivalent, but who has coursework deficiencies relevant to the field of study, provided the applicant has met all other requirements for admission in full standing. In such cases, the graduate liaison must provide the Graduate College with a Statement of Conditional Admission. This statement must indicate the coursework deficiencies to be completed and the time frame in which the courses are to be completed. The Graduate College must approve these conditions. If approved by the Graduate College and admission is granted, a copy of the statement is included with the letter of admission sent to the student. Coursework deficiencies should be completed within the first 18 credit hours of coursework.

MEETING THE CONDITIONS
When the student has completed the specified courses with grades that meet the minimum level specified in the terms of the conditions of admission, the student will be admitted as a student in full standing in a degree program. A student admitted to the Graduate College with coursework deficiencies must earn at least a C in each of the courses, and must have an overall 3.0 grade point average in deficiency courses. A student will be given two attempts at each course to satisfy this requirement but no course in which a B was obtained may be repeated.

Each attempt will be used in determining the overall grade point average on deficiency courses. Courses used to fulfill the coursework deficiencies cannot be applied toward a graduate degree. The Graduate College will carefully monitor the student’s academic performance. Failure to comply with these requirements will result in dismissal of the student. Coursework deficiencies cannot be arbitrarily removed, but a department’s graduate liaison may petition the Graduate Dean with justification for the removal of a deficiency.
Financial Assistance
For financial aid purposes, students admitted in unclassified status are not eligible for financial aid. Contact Financial Aid Services for additional information.

Other Admission Types
SPECIAL STUDENT STATUS
Special student status is appropriate for two types of students:
1. A student needing to exceed this limit should submit a petition to the Graduate Dean. (This approval is seldom, if ever, granted by the Graduate Dean.) An academic unit has the prerogative to weigh academic performance as a special student either more than, less than, or on an equal basis with the undergraduate record and, thus, this weighing should be reflected in a graduate liaison’s recommendation for admission or denial to the Graduate College.

Financial Assistance
For financial aid purposes, special students may not be eligible for financial aid. Contact Financial Aid Services for specific information.

CERTIFICATION STATUS
A student wishing to fulfill requirements for a professional certificate may be admitted in certification status. Credits earned under this status may be used to fulfill graduate degree requirements only if accepted by the appropriate academic unit and the Graduate Dean. Academic units may have specific limits, and students are responsible for ascertaining these before enrolling in this status. Students fulfilling requirements for certificates other than teaching certificates are ineligible for federal need-based financial aid. Contact Financial Aid Services for specific information.

VISITOR STATUS
A graduate student in good academic standing at another accredited institution may take courses at the University of Oklahoma as a visitor. To be admitted as a visitor, a prospective graduate student must submit the following information to the Office of Admissions:
1. A completed University of Oklahoma Application for Admission, and
2. A letter of good standing from the home institution. This letter should be from the Dean of the applicant’s Graduate College and bear the seal of the University.

As a visitor, a graduate student has all the rights and privileges of other graduate students except the student is not in a degree program and, thus, is not pursuing a graduate degree at the University of Oklahoma.

A visitor who later wants to apply visitor credit toward an OU graduate degree must have been eligible for admission in full standing at the time the courses were taken. Should the visitor decide to pursue a graduate degree here, the student is required to file another application and submit official copies of all transcripts and any other materials required by the academic unit in order to be admitted as a graduate student. Visiting students are ineligible for federal financial aid because this assistance is limited to students seeking degrees at the University of Oklahoma. Contact Financial Aid Services for specific information.

ADMISSION OF UNIVERSITY OF OKLAHOMA GRADUATING SENIORS
A senior graduating from the University of Oklahoma who wishes to apply for admission to a graduate program should report to the Office of Admissions, Room 127, Buchanan Hall, during the final semester of the senior year in order to complete the Application for Admission of University of Oklahoma Graduating Seniors. The senior’s academic record will be referred to the Graduate College and then to the prospective academic unit for recommendation in accordance with the standard application process. If admitted, the graduating senior must inform the Graduate College if any requirements for the undergraduate degree have not been completed. If any requirements are not completed, the admission will be canceled and the student must reapply. A college senior who qualifies for conditional admission to the Graduate College due to low grades will not receive a final decision on conditional admission until the complete undergraduate transcript is available for review.

ADMISSION & REGISTRATION IN WORKSHOPS, SHORT COURSES OR OTHER SPECIAL COURSE OFFERINGS
Workshop, short course or other special course participants who have not yet been admitted to, or are not enrolled in, the Graduate College will be admitted as special students until the Graduate College can review all necessary credentials and make a decision. In the event that a student does
not provide sufficient material for review prior to the end of the semester or summer session, or should a student be denied admission to the Graduate College, the student will remain a special student for that semester or session.

Cost and Financial Support

Cost
The cost of attending the University of Oklahoma includes tuition, fees, books, housing (including room and board), transportation and miscellaneous living expenses. The actual cost of attending the University will vary depending on a student’s resident status, academic level, course load, housing arrangements, personal needs, and spending habits. For current tuition and fees, students should refer to http://www.ou.edu/bursar/fees.htm.

Change of Major
A student who is currently enrolled in, or who has been enrolled in, the Graduate College within the last three terms and wishes to change the major area of interest or degree program must complete a Change of Major Request. This form is available in the Graduate College, from the graduate liaison in each academic unit, and on the Graduate College Web site at http://gradweb.ou.edu/docs/forms/ChangeOfMajor.asp.

A student who is currently enrolled in a doctoral program and wishes to obtain a non-thesis or a thesis option master’s degree in the same major and then continue their doctoral program is not required to complete the Change of Major Request. (See “Obtaining a Master’s Degree While Working on a Doctoral Degree”). A student on any type of probation or in the first semester of a low grades conditional admission is not permitted to change his or her major. Requests for changes of major requests are not processed after the 13th week of the semester (sixth week of the summer session) until the Graduate College receives student grades for that semester.

Readmission to the Graduate College
Re-admission Process
A prospective student must register for courses at the University of Oklahoma for the term of admission in order to retain active status as a graduate student. The student is subject to the regulations applicable during the first term of enrollment so long as continuous enrollments are maintained. A student, whose initial enrollment as a graduate student at the University of Oklahoma is during the summer session, will be subject to the University of Oklahoma catalog or bulletin in effect for the year following that summer.

Updating an Admission
A prospective student who has been admitted and does not enroll for the term of admission may update that application for up to one year from the original date of admission. Updating an application may require academic unit approval.

Lapsed Enrollment
A current graduate student who has a lapse of enrollment for one year must reapply for admission.

Stop-out Policy
A graduate student who finds it necessary to discontinue the program of study (i.e., stop-out) may petition the Graduate College for an exception (in order to return under the student’s original policy) to the readmission policy. The petition must detail the reasons for the “stop-out” and indicate the length of the “stop-out” period. The petition, whenever possible, must be processed while the student is still enrolled. As a general rule, the “stop-out” period will not exceed two years from the student’s last enrollment. The period of the “stop-out” will count toward the time limits for completing the degree.

Cost and Financial Support

Financial Support
Financial support is any financial resource that a student may receive to assist in meeting the cost of attending the University. These resources include financial aid, such as federal and state grants, loans and work-study programs, graduate assistantships, fellowships and scholarships, and tuition waivers.

Financial Aid
Office of Financial Aid
The Office of Financial Aid Services awards and monitors all federal and need-based awards. Financial Aid Services is open from 8 a.m. to 5 p.m. Monday through Friday and is located on the third floor of Buchanan Hall. For additional information on financial aid programs and application information, please contact:

University of Oklahoma
Financial Aid Services
The University of Oklahoma
1000 Asp Ave., Room 300
Norman, OK 73019-2111
Phone: (405) 325-4521; FAX (405) 325-7608
Internet: www.finaid.ou.edu
e-mail: financialaid@ou.edu

Students are encouraged to utilize the Interactive Voice Response system for general financial aid and scholarship information as well as to check the status of their financial aid application. Students are also required to keep their address updated with Financial Aid Services at all times. Additional information is available online at www.finaid.ou.edu.

Applying for Financial Aid
Students are encouraged to apply for financial aid by submitting the Free Application for Federal Student Aid (FAFSA) the Renewal FAFSA, or by filing electronically via FAFSA or the Web. Students may obtain the FAFSA from the Office of the Financial Aid Services at the University of Oklahoma. The Renewal FAFSA may be mailed automatically to students who applied for financial aid the previous year. Students who intend to apply electronically via FAFSA on the Web should contact OU Financial Aid Services for additional information, including deadlines, etc.

Applications Deadlines
Students are encouraged to submit the FAFSA as soon as possible after Jan. 1 in order to be considered for all available aid programs. The recommended filing date is prior to March 1 for the following fall/spring semesters. Contact Financial Aid Services directly for information about applying for summer financial aid and a separate institutional summer application. The recommended summer deadline is normally mid-May prior to the start of summer classes. Financial aid is not available for intersession classes.

Award Notification
After the student submits all required information and meets all eligibility requirements, Financial Aid Services creates and sends a financial aid award letter to inform the student about financial aid awards that are available to help meet the cost of attending OU. The student will then decide what aid programs to accept or decline by signing one copy of the award letter and returning it to the Office of Financial Aid Services.

Eligibility Requirements
Students must apply for financial aid annually and demonstrate eligibility as determined by regulations established by the U.S. Department of Education. For financial aid purposes, full-time enrollment for a graduate student is nine credit hours per semester and part-time enrollment is five credit hours per semester, excluding summer. Graduate assistants with a 0.50 FTE appointment enrolled in less than nine hours are not considered full-time for financial aid purposes.

CERTIFICATION PROGRAMS
For financial aid purposes, students enrolled in teaching certification programs are considered fifth-year undergraduates by the U.S. Department of Education and are subject to the same application criteria and loan limits as fifth-year undergraduates. Students enrolled in the TE-PLUS Program...
who have received their bachelor’s degree may apply for financial aid as a graduate student, subject to graduate-level program eligibility requirements and loan limits. Students fulfilling requirements for certificates other than teaching certificates are ineligible for federal need-based financial aid.

SPECIAL, UNCLASSIFIED, AND VISITING STUDENTS
Students admitted in a special or unclassified student status may not be eligible for financial aid. Financial Aid Services will require students admitted in these categories to obtain specific documentation for aid consideration. Students enrolling in classes to raise their grade point average for admission into their degree program or enrolling in classes while waiting to take required entrance exams are ineligible for financial aid. Visiting students are ineligible for financial aid as federal financial aid programs are limited to students seeking degrees from the University of Oklahoma.

INTERNATIONAL STUDENTS
An international student may apply for federal financial aid only if considered an “eligible non-citizen” by the U.S. Department of Education. The Free Application for Federal Student Aid instruction packet lists the citizenship requirements for financial aid applicants.

Federal Financial Aid
Financial Aid Services is responsible for the administration of federal financial aid programs such as the Federal Perkins Loan Program, the Federal Family Education Loan Program, the Federal Work-study Program, and the Oklahoma Tuition Aid Grant program. In addition, the Office of Financial Aid Services awards need-based tuition waivers.

Federal Perkins Loan Program
The Federal Perkins Loan Program is a low-interest loan program administered by the University of Oklahoma. Students must initially apply using the FAFSA, demonstrate significant financial need and maintain satisfactory academic progress as defined by the University and by Financial Aid Services. These funds are limited; thus, students applying for a Federal Perkins Loan are encouraged to submit the FAFSA as soon after January 1 as possible for consideration for the following fall/spring semesters. Contact the Office of Financial Aid for more information.

Federal Family Education Loan Program
The Federal Family Education Loan Program includes the Federal Stafford Loan Program and the Unsubsidized Stafford Loan Program. Students must apply using the FAFSA, meet eligibility requirements, and maintain satisfactory academic progress as defined by the University and by Financial Aid Services. Contact the Office of Financial Aid Services for more information. Students are encouraged to apply as soon after January 1 as possible for consideration in this program. Contact the Office of Financial Aid for more information. The University of Oklahoma Lew Wentz Foundation acts as a lender for the Federal Stafford and Unsubsidized Stafford Loans for graduate and law students. Information about this special lending program is available from Financial Aid Services.

Federal Work-Study Program
The Federal Work-study Program allows students to work in designated work-study jobs in order to meet the costs of their education. Students may apply for the Federal Work-study Program by completing the FAFSA. Students who are offered and accept Federal Work-Study funds must also apply and be selected for employment. For employment application information, please contact Personnel Services, 905 Asp Avenue Norman, OK 73019-0429, (405) 325-1826, or visit office of human resources at www.ou.edu/ohr.

Oklahoma Tuition Aid Grant Program
Students applying for the Oklahoma Tuition Aid Grant should submit the FAFSA as soon as possible after Jan. 1 each year for consideration during the following fall/spring semesters. The Oklahoma State Regents for Higher Education determine the eligibility requirements for the program. Graduate students may receive OTAG awards, but must enroll in a minimum of six hours per semester to maintain their eligibility. Students must be Oklahoma residents, exhibit sufficient need and apply early to be considered for these limited funds. OTAG is not available in the summer.

Need-Based Graduate Resident Tuition Waiver
Oklahoma resident graduate students who demonstrate financial need based on information reported on the Free Application for Federal Student Aid are considered for need based graduate resident tuition waivers. Funding for these waivers is limited: Thus, students are encouraged to apply as soon possible after January 1 for consideration during the following fall/spring semesters.

Graduate Assistantships
Most academic units employ graduate students on a part-time basis. These graduate assistantships are awarded and governed by individual academic units. A student should contact the chair/director of a specific academic unit to obtain information about, and applications for, graduate assistantships.

Teaching Assistant Orientation
All graduate teaching assistants (GTAs) must complete attend one or both of the teaching assistant orientations offered by OU’s Instructional Development Program prior to commencing their teaching responsibilities. However, GTAs who do not have substantive contact with students (e.g., those who only do grading) are exempt from this requirement. International GTAs must attend the International TA Orientation Program; all GTAs (international and American) need to attend the All-TA Orientation Program. For additional information contact the Director of Instructional Development, 203 Hester Hall, (405) 325-2323.

English Language Certification
Before assuming teaching assistant duties that require contact with students, any graduate student for whom English is not the native language must be certified as proficient in oral, aural, and written English. Certification is obtained through the English Assessment Program located in Robertson Hall, (405) 325-1838. If observation determines that a certified instructor is having serious communication difficulties in the classroom, English language certification may be revoked, which will require that the instructor be removed from the classroom. Graduate students who wish to improve their English skills may also take non-credit speaking or writing classes offered by the English Assessment Program.

Assistantships and Financial Aid
Graduate assistants with a 0.5 FTE appointment enrolled in less than nine hours are not considered full-time for financial aid purposes. A minimum of six hours of enrollment per semester is required to receive funds as a part-time student from the Oklahoma Tuition Aid Grant program. Other conditions of appointments, including minimum enrollment requirements, are listed in the Graduate Assistants Handbook at http://gradweb.ou.edu/docs/info/gahandbook/index.htm.

Scholarships and Fellowships
Students are encouraged to apply for scholarships based on academic ability, talent or financial need. Students may conduct an online scholarship search by visiting www.finaid.ou.edu. The publication A Guide to Financial Aid and Scholarships, available upon request from OU’s Office of Prospective Student Services, contains a comprehensive listing and application instructions for OU scholarships. Scholarship recipients who also are recipients of other types of financial aid may have their financial aid award letter revised. The University strongly encourages graduate students to apply for fellowships from external funding agencies. There are a number of major fellowship opportunities available for students engaged in full-time study leading to the doctoral degree. Among these are:

- The American Association of University Women Dissertation Fellowships
- The Mellon Fellowships in the Humanities
- The National Science Foundation Graduate Research Fellowships
- The Office of Naval Research Graduate Fellowships

The Graduate Studies and Resource Center in Hester Hall can provide detailed information on fellowship opportunities and assistance in preparing applications. Students are encouraged to write directly to the granting agencies.
Community of Scholars

In an effort to assist graduate students in locating funding opportunities, the Graduate College provides access via our home page to the Community of Scholars National Funding Opportunities database. This comprehensive Web-based listing of funds from various government agencies, private foundations, industries, and academic institutions offers eligible students excellent opportunities for advanced study. Each entry contains a brief description of the program and an address to obtain further information and an application. This service is an invaluable tool for quickly identifying funding opportunities for graduate students and faculty. Visit the Graduate College’s home page at www.gradweb.ou.edu and select “Funding Opportunities” to explore this database.

Oak Ridge Associated Universities

Since 1949, students and faculty of the University of Oklahoma have benefitted from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 88 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines, including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of under-represented minority students pursuing degrees in science and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available at www.orau.gov/orise/educ.htm or by calling either of the contacts listed.

For more information about ORAU and its programs contact:

- Richard D. Elmore, Robert and Doris Klabzuba Professor of Geology, ORAU Counselor for the University of Oklahoma, or
- Monnie E. Champion, ORAU Corporate Secretary, (866) 576-3306 or http://www.orau.org.

Additional Funding Sources

Additional information regarding grant, scholarship, or other funding should be directed to the following agencies. Recipients of these programs who are recipients of other financial aid may expect their award letters to be revised.

VOCATIONAL REHABILITATIVE SERVICES

Vocational Rehabilitative Services may assist students who have certain physical, mental, or emotional disabilities by providing funding or other support services. Contact the Department of Human Services Rehabilitative Services Division in your community for information and applications. The vocational objective must be approved by a representative of the division.

VETERANS ADMINISTRATION

Educational benefits may be available to students who are active duty, reserve personnel, or veterans. Students should contact their area Veterans Administration office for information regarding educational benefits.

TRIBAL GRANTS

Native American students are encouraged to contact their tribal agency for specific information and application materials for higher education grants, scholarships, and fellowships. Students may also obtain information from the assistant director of American Indian Student Services, Center for Student Life. Another valuable source of funding is through the American Indian Graduate Center, 4520 Montgomery Blvd. NE, Suite 1-B, Albuquerque, NM 87109-1291, (505) 881-4584.

Enrollment, Grades, and Graduation

COURSES APPROVED FOR GRADUATE CREDIT

Graduate credit for work successfully completed at the University of Oklahoma is allowed only for courses listed with a G before the course number. Daggered courses (†G) are not applicable for graduate credit for majors in the academic unit offering the courses. Whether or not a particular course is acceptable as credit toward the degree on which the student is working is determined by the academic unit and/or advisory committee and the Graduate Dean. Graduate credit for work successfully completed at the University of Oklahoma Health Sciences Center is allowed only for courses listed in its Graduate College Bulletin. Courses taken by a student in a combined undergraduate degree may not apply toward a graduate degree.

GRADUATES IN THE GRADUATE COLLEGE

The grades awarded in the Graduate College are A, B, C, D, F, S, U, I, W and X. The following explanations apply only to those courses that are approved for graduate credit. Students may not repeat a course in which they have earned a grade of A or B unless the course is one in which there is a change of content.

AW, meaning administrative withdrawal, is a neutral grade assigned when the student is involuntarily withdrawn by the institution during the designated semester for disciplinary or financial reasons, or for inadequate attendance.

D is failing insofar as credit toward a graduate degree is concerned and cannot be used to satisfy prerequisite requirements and/or requirements for certificates.

I is a neutral grade meaning Incomplete. It indicates that the student has not yet completed all required coursework. The instructor will indicate to the student what must be done to complete the course and set a time limit appropriate to the circumstances. However, the time allowed may not exceed one calendar year. If, by the end of the year, no change in grade has been submitted, the grade of I will become permanent on the student’s record. After a grade of I has become permanent, a student may re-enroll in the course. Credit for courses in which a student has received a grade of D will not be transferred from another institution. The one-year time limitation concerning removal of incompletes does not apply to graduate research and certain graduate problems courses.

P and NP, meaning Pass and No Pass, are used as grades in a course in which a student has enrolled under the “pass/no pass” grade option. The grades of P and NP are considered neutral in the computation of the student’s grade point average. P indicates work equivalent to a grade of C work or better. NP indicates no credit for a pass/no pass option enrollment. Graduate students may use the pass/no pass option only with courses that will not apply toward a graduate degree.

S and U are neutral grades meaning Satisfactory and Unsatisfactory. U indicates that no credit is received for the work undertaken. The grade of S signifies work equivalent to a grade of B or better. The grade of S is not used for lecture/recitation courses except with the approval of the Graduate Dean. S is the only passing grade accepted for special problems, individual research, and directed reading courses. The grade of S must be used to indicate that a thesis or dissertation is satisfactory. S and U grades may be used for seminar courses provided that the seminars are taught on a noncompetitive basis and that all students in the course are graded on this basis.

W, meaning withdrawal, is a neutral grade assigned when the student is passing at the time of withdrawal.

X is a neutral grade used only for the thesis and dissertation research courses numbered 5980 and 6980 and for thesis and dissertation equivalent courses numbered 5880 and 6880. It indicates that satisfactory progress is being made toward the thesis, dissertation or its equivalent.
Enrollment

To be eligible for enrollment, the student must have been admitted to both the University and to the Graduate College before the registration period ends for any given semester.

ENROLLMENT APPROVAL

All enrollments must be approved by the academic unit adviser or, in the case of unclassified students, by the Graduate Dean if no academic unit adviser has been assigned. A student whose initial enrollment in the University of Oklahoma is during the summer session will be subject to the University of Oklahoma catalog or bulletin in effect for the academic year following that summer.

ASSIGNMENT OF AN ADVISER

Although the Graduate Dean is a general adviser for all graduate students, a student is under the immediate direction of a graduate adviser in the academic unit of the major field. With the permission of the academic unit, students admitted in Unclassified status may be assigned a graduate adviser in the academic unit most closely related to their academic interest. All other students admitted as unclassified should report directly to the Graduate College for advising.

FULL-TIME AND MAXIMUM ENROLLMENT

Full-time enrollment for a graduate student is nine or more credit hours during the fall and spring semesters; four or more credit hours during the summer session. Audit courses do not count towards the number of hours. A student may not carry more than 16 hours per regular semester nor more than nine hours per summer session without the permission of the Graduate Dean.

ENROLLMENT OF GRADUATE ASSISTANTS

A graduate assistant holding a 0.5 FTE appointment will be required to enroll in at least six credit hours during the fall and spring semesters and at least three credit hours for a summer session to be classified as a full-time student in the Graduate College. Students appointed to graduate assistantships should note in the Graduate Assistant Handbook the special rules applying to them. Graduate assistants with 0.5 FTE appointments enrolled in less than nine hours are not considered full-time for financial aid purposes. A minimum of six hours of enrollment is required to receive funds as a part-time student from the Oklahoma Tuition Aid Grant program. Programs with higher minimum enrollment requirements than those listed in this section shall so indicate in that section of the General Catalog which specifically describes their program. This information is also available in the academic unit and the Graduate College.

ENROLLMENT OF UNDERGRADUATES IN GRADUATE COURSES

Eligibility

Qualified junior or senior undergraduates at the University of Oklahoma may, with permission from the academic unit, enroll in 5000-level graduate courses for either undergraduate or graduate credit. Undergraduates may not enroll in 6000-level courses except by permission of the academic unit and the Graduate Dean.

Application for Graduate Credit

To apply for graduate credit, undergraduates must have a minimum overall grade point average of 3.00 and must complete and return to the Graduate College the Application for Graduate Credit for Courses Taken During the Junior and Senior Years form. To enroll in the course for graduate credit, the student must receive permission from the instructor, the person who serves as liaison between the Graduate College and the academic unit offering the course, and the Graduate Dean.

The approval of the instructor signifies that the junior or senior will be graded in competition with the graduate students in the class.

Earning Graduate Credit

When the student has completed the requirements for the bachelor’s degree, the Graduate College will request that the student’s undergraduate college verify that the course was not required for the bachelor’s degree and that a grade of either A, B, or S was earned in the course. If all of the above stipulations are satisfied, the Office of Academic Records will note on the student’s transcript that graduate credit was earned in the course. Credit for courses so listed may not be applied toward the bachelor’s degree. Conversely, courses applied toward a bachelor’s degree may not be applied toward a graduate degree.

Limitations

Each graduate degree has a prescribed set of courses required for that degree, and not all graduate-level courses can be applied to fulfill those requirements. Prior to enrollment in graduate-level courses, the student should consult with the academic unit from which the student plans to receive a graduate degree to plan an appropriate program.

ENROLLMENT AT OTHER LOCATIONS

Enrollment in OU Health Sciences Center Courses

A graduate student may enroll in graduate courses at the OU Health Sciences Center if they are appropriate for the degree sought. At the time of registration, a brief form for inter-campus registration must be completed at the Office of Admissions on the Norman campus. The courses taken will be reported and listed on the transcript of the student in the same manner as courses taken on this campus. Tuition waivers awarded from the Norman campus Graduate College may not apply to courses taken at the OU Health Sciences Center. Consult with the Graduate College for additional information.

Enrollment in Law Courses

The College of Law will allow graduate students in the University of Oklahoma to enroll in College of Law courses as long as the graduate student has the advance approval of the student’s Dean or academic unit chair; the Dean or Associate Dean of the College of Law; and the professor teaching the course.

The course must be determined by the graduate student’s academic unit to beneficially contribute to the student’s graduate degree program. Of necessity, students desiring to take College of Law courses will only be allowed to do so after law students have enrolled and space remains in the class. Tuition waivers awarded from the Norman campus Graduate College do not apply to courses taken at the OU College of Law.

COLLEGE OF LAW GRADING SCALE

Graduate students enrolled in College of Law courses may be graded on an S/U grading scale. Students who receive at least a 4 on the College of Law grading scale will be recorded an S in the course whereas those students receiving below this will receive a U.

ENROLLMENT IN A GRADUATE PROGRAM AT ANOTHER UNIVERSITY

A University of Oklahoma graduate student must have the approval of the Graduate Dean to enroll concurrently in a graduate program at another university. Failure to obtain this approval could lead to disenrollment as a graduate student at the University of Oklahoma.

Auditing Courses

A graduate student may enroll as an auditor with the approval of the course instructor. Junior and senior undergraduate students may audit 5000-level courses if they have received permission from the instructor and the academic unit. Undergraduates may not audit 6000-level courses, except with the permission of the instructor, the academic unit and the Graduate Dean.

Degree Completion

To qualify for a higher graduate degree, students must achieve an overall grade point average of 3.00 or higher in the degree program coursework and in all resident graduate coursework attempted. A student must also have at least a 3.00 in all coursework (undergraduate and graduate combined) attempted. All these grade point calculations are based on coursework attempted since the completion of the most recent degree earned at the University of Oklahoma.
APPLICATION FOR GRADUATION

Students must apply for the appropriate degree early within the semester in which they propose to graduate. The “Application for Graduation” must be filed with the registrar indicating the student’s name exactly as it is to appear on the diploma and giving the exact date for which the student was admitted to candidacy.

GRADUATION

Degrees are conferred at the regular commencement exercises in May and in absentia at the end of the fall semester and summer session. Attendance at the commencement exercises when the degree is conferred is requested of all candidates. Appropriate academic attire must be worn. The Graduate College will not approve any changes in the student’s permanent record once the graduate degree is awarded.

Graduate College Standards

The Graduate College is responsible for periodic performance reviews of graduate students in accordance with the guidelines described in this bulletin. The Graduate Council and the Dean of the Graduate College shall supervise and evaluate the academic units of the University which offer the master’s and doctoral degree to ensure observance of policy and academic excellence. They shall use adequate means of inspection in evaluating the quality of master’s and doctoral programs.

RETENTION

A student can continue as a graduate student as long as the student fulfills the specific requirements of the academic unit:

- makes satisfactory progress toward the degree;
- maintains a B average (3.00 GPA) in all coursework attempted (undergraduate and graduate combined) while in the graduate program; and
- maintains a B average (3.00 GPA) in all graduate coursework attempted while in the graduate program.

The rules for retention apply to all graduate students.

Progress Review

The Graduate College monitors each student’s academic progress. At the end of each semester or summer session the Graduate College will notify those students who fail to meet the standards of performance.

Satisfactory Progress

Making satisfactory progress toward the degree includes, but is not limited to:

- timely completion of the coursework required for the degree,
- submission of an advisory conference report if a doctoral student,
- progress made in completing research,
- passing of the comprehensive, general examination, or final oral examination,
- completion of the thesis or dissertation.

The Grade Point Average

If either of the two calculations yields a grade point average less than 3.00, the student will be placed on academic probation. All grades obtained in graduate-level courses, whether comprising a part of the degree program or not, will be used in calculating grade point averages for purposes of retention and graduation. Exceptions are grades of S, U, I, X, P, NP, W, and AU, for which no grade points are awarded. Graduate students, who as undergraduates earned graduate credit that had been approved to form part of their graduate programs, will have these credits used in determining their grade point averages.

Disenrollment

When a doctoral student earns nine credit hours of grades C, D, or F in any combination, the student will be disenrolled from the doctoral program and is ineligible for admission to another doctoral program. However, this student can be considered for admission to a master’s program in which the student does not already hold a master’s degree. A student who does not meet the requirements of a conditional admission is subject to dismissal from the Graduate College.

ACADEMIC PROBATION

Students on probation will be notified by letter and/or e-mail that they have been placed on probation. The student’s major department also will receive same notification.

Low Graduate GPA

Students placed on academic probation because their performance in graduate coursework is below a 3.00 will be evaluated each semester and at the end of the semester in which the next 12 hours of graduate credit coursework is completed. Students on probation will be notified by letter (e-mail) that they have been placed on probation; the 12 hours represent the probationary period. If during the probationary period, the student does not achieve a cumulative grade point average of at least 3.00 in all graduate courses awarding grade points which have been taken since completion of the most recent degree at the University of Oklahoma or makes additional grades less than “B”, then further enrollment will be denied. Students enrolled in graduate degree programs in which they do not accumulate grade points will be evaluated at the conclusion of an equivalent period. Students who do not improve their grade point averages may be denied further enrollment before the probationary period elapses.

Low Overall Coursework GPA

Students who are placed on probation because their overall coursework performance (undergraduate plus graduate) is below a 3.00 will be evaluated as above, except the probationary period will be considered the next 12 credit hours (both graduate and undergraduate) taken.

U and NP Probation

A student earning two or more credit hours of U and/or NP in one semester or summer session will be placed on academic probation for the next two semesters in which the student enrolls. Earning two or more credit hours of U and/or NP during a U or NP probation will be grounds for dismissal from an academic program and the Graduate College.

Disenrollment

A student will be denied further enrollment when the student is placed on any type of academic probation for the third time.

ACADEMIC UNIT STANDARDS

Academic Units may have additional and more stringent criteria for evaluating a student’s performance and progress. They may demand a higher level of performance than that required by the Graduate College. An academic unit may, under some circumstances, recommend dismissal of a student from a graduate program even though a 3.00 grade point average has been maintained. In such cases, the academic unit must describe in writing to the student and the Graduate College the circumstances on which the unsatisfactory performance or progress evaluation is based, and specify what the student should do and the time frame for improvement. If the student fails to meet the criteria outlined in this letter, the academic unit may recommend dismissal from the program. Grounds for dismissal include, but are not limited to:

- failure to be accepted by an appropriate thesis or dissertation advisor within the stipulated time limitations;
- failure to make timely progress toward the degree;
- failure to perform in coursework, qualifying examinations, or research at an acceptable level in the respective academic unit.

EVALUATION OF STUDENTS

Academic units shall conduct an annual review and evaluation of their graduate students’ progress in meeting degree requirements. Normally, the graduate faculty of the academic unit shall conduct this review. However, in large academic units, the review may be done by program units, or other units designated by the department, when authorized by the Graduate Dean. Any exceptions to this requirement must receive the prior written approval of the Graduate Dean.

Review Criteria

The review may include, but is not limited to, considerations such as:

- progress made in meeting conditions of admission;
- completion, within the prescribed period of time, of those courses in which the student has received an A;
• completion of core course requirements;
• completion of research tool requirements;
• progress made in completing research requirements;
• timely filing of the prospectus;
• the general quality of research;
• completion of the thesis or dissertation.

The review may also encompass the student's broader scholarly capabilities and professional development. The review should not include an assessment of the student's performance as a graduate assistant.

Review Notification Letter

The academic unit will notify each student and the Graduate College by letter of the student's progress and performance toward satisfying degree requirements. If there are deficient areas, the academic unit should specify clearly what the student should do to receive a satisfactory evaluation. If the student is not so notified by the end of the 14th week of the spring semester, it is the student's responsibility to request in writing that the academic unit provide such an evaluation. This request must be received by the academic unit prior to the beginning of the summer session. Failure to receive or request the written evaluation does not change the student's responsibility of maintaining satisfactory progress in meeting academic unit and Graduate College requirements.

Second Review

The Graduate College will review the student's total record and, if appropriate, the student will be placed on probation. The academic unit is responsible for monitoring the performance of a student with a less than satisfactory evaluation and shall conduct a second review at the end of the next semester or designated period. The Graduate College and the student should be notified by letter of the results of the second review. Based on the second review and the academic unit's recommendation, the Graduate College will either:

• remove the student from probation,
• deny the student further enrollment, or
• continue the student on probation for an additional period.

Third Review

A student who receives an unsatisfactory yearly evaluation for the third time will be denied further enrollment.

Dismissal

Just as the Graduate College has the formal responsibility of admitting graduate students, it also has the responsibility of formally dismissing students.

SPECIAL STANDARDS OF PERFORMANCE FOR STUDENTS ENROLLED IN INTERNSHIPS, PRACTICA OR SIMILAR PROFESSIONAL EXPERIENCES

Some degree programs require that students successfully complete a professional experience such as an internship or a practicum. Students who have advanced to this point in their academic programs must exhibit the highest level of professional standards and conduct. For this reason, a student who earns an unsatisfactory grade, or engages in inappropriate conduct in a professional experience such as an internship or practicum, may be disenrolled from the academic program. In order to recommend a student for disenrollment under these provisions, the chair or director will:

• meet with the student involved;
• conclude that the incident or incidents involve misconduct so egregious that the student must not be assigned a second professional experience; and
• will write a letter to the Graduate Dean with a copy to the student reporting on the incident; describing the professional standards which have been violated, the results of the investigation, and the results of the meeting with the student, and recommending that the student be disenrolled.

The Graduate Dean may then approve or disapprove the recommendation or may conduct a further investigation. If the recommendation is approved, the Graduate Dean will notify the student of disenrollment from the academic program and advise the student of the right to file an academic appeal of the matter. The Academic Appeals Board for the Graduate College will hear appeals of disenrollments made under the provisions of this policy.

ACADEMIC MISCONDUCT

The Student Code specifies the responsibilities and conduct of students on the Norman campus. The code includes the academic misconduct procedures in force on the campus. The definition of academic misconduct is as follows:

• cheating (using unauthorized materials, information, or study aids in any academic exercise), plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and any and all other actions that may improperly affect the evaluation of a student's academic performance or achievement;
• assisting others in any such act; or
• attempting to engage in such acts.

It is the responsibility of each student to be familiar with the definitions, policies and procedures concerning academic misconduct.

The Student Code is available from the Office of the Vice President for Student Affairs or on the Internet at www.ou.edu/studentcode. Further information about academic misconduct is contained in the Student's Guide to Academic Integrity, available on the Internet at www.ou.edu/provost/integrity.

ACADEMIC APPEALS

A Graduate College Academic Appeals Panel will be appointed and given authority to hear all appeals involving qualifying examinations, comprehensive examinations, general examinations, theses and dissertations, and other appropriate matters as determined by the Graduate Dean. The only issues to be resolved are those of prejudiced or capricious evaluation, or alleged inability to speak the English language to the extent necessary to adequately instruct students. Complete information about Graduate College academic appeals may be obtained from the Graduate College Academic Appeals Guidelines and the Student Code, Title 14.

Filing an Appeal

If the student wishes to appeal, the student will submit a written appeal to the dean. The written appeal must specify:

1. the action being appealed;
2. the names of individuals allegedly responsible, if known;
3. a summary of the evidence of alleged wrongful treatment; and
4. a statement of the relief desired.

Time Limits

In cases of end-of-term evaluations, a student must notify an instructor of a dispute over an academic evaluation and must attempt to resolve differences no later than February 15 for the previous fall semester or winter session, and no later than September 15 in cases of end-of-term evaluations for the previous spring semester, spring intersession, or summer session. In cases of an evaluation made known to a student during the term, the student must notify an instructor of a dispute over an academic evaluation and must attempt to resolve differences no later than 15 calendar days (excluding Saturdays, Sundays, and University holidays from classes) after the results of an evaluation are made known to the student. If a student fails to notify an instructor or fails to attempt resolution within the appropriate time limit, the panel shall deny any request for a hearing on the claim unless, in the view of the board, the student has been prevented from complying with the appropriate time limit (for example, a student being called into military service). A written appeal must be filed as soon as possible, but in no event completed. The board shall deny any request for a hearing on the claim, which does not meet this deadline unless, in the view of the board, exceptional circumstances exist whereby the student is prevented from filing a claim.

THE GRADUATE ASSISTANT APPEALS BOARD

The Graduate Assistant Appeals Board will be appointed to hear appeals by graduate assistants regarding termination requests by academic units and/or employment grievances of graduate assistants. Students wishing to file an appeal with the Graduate Assistant Appeals Board must do so within 10 calendar days (excluding Saturdays, Sundays, and University holidays from classes) of the action being appealed. Appeals should be filed in writing in the Graduate College Office. The written appeal should state:

1. the action being appealed,
Information for Master’s Students

BASIC REQUIREMENTS FOR THE MASTER’S DEGREE

Graduate College Requirements

The master’s degree requires the equivalent of at least two semesters of satisfactory graduate work, and such additional work as may be prescribed for the degree. All coursework applied toward the master’s degree must carry graduate credit. Whether or not a thesis is required is determined by the Graduate Council on request from the academic unit offering the degree.

Thesis Program Requirements

If a thesis is written, the program will consist of at least 30 credit hours.

Non-Thesis Program Requirements

The number of credit hours required for a non-thesis program is program dependent, but all of these programs require at least 32 credit hours.

Major and Minor Requirements

The major requirements, as well as undergraduate prerequisites, are determined by the academic unit offering the degree and approved by the Graduate College. Minor emphasis requirements are determined by the academic unit in which the minor is earned. Currently, minors are not posted to the graduate transcript.

HYDROLOGIC SCIENCES

The only graduate minor currently approved at the University of Oklahoma is in Hydrologic Sciences. The minor consists of two areas within hydrologic sciences:

1. hydrometeorology, and
2. groundwater-subsurface environment.

Requirements for the minor are a minimum of 12 hours to be distributed as nine credits from the approved lists of regular courses as defined, and three credit hours from the list of analysis tools.

Academic Unit Requirements

A department is permitted to add to the minimum undergraduate course requirements for the graduate minor and major fields, and to make recommendations concerning the preliminary work which that must be done before the student may be recognized as having attained full graduate standing in the department. Statements of these special requirements are included in the academic unit announcements.

Course Credit Requirements

All resident credit required for a master’s degree must be taught by members of the graduate faculty of the University of Oklahoma. Some course credit may be transferred from other institutions, under certain conditions. Courses completed through correspondence study are not acceptable toward the master’s degree.

Obtaining a Master’s Degree While Working on a Doctoral Degree

Students who do not hold the master’s degree in the doctoral field, but who have passed the general examination for the doctoral degree, may be admitted to candidacy and awarded the appropriate master’s degree provided they meet the following conditions:

1. make formal application for the master’s degree (within required filing dates);
2. meet all academic unit requirements;
3. secure the recommendation of the major academic unit; and
4. apply for graduation.

Graduate students working on a doctoral degree cannot apply for a master’s degree based on the passage of the General Examination if a thesis is required for all master’s degrees in that academic unit. The Graduate College normally does not grant an additional master’s degree in the same field in which an individual already holds a master’s degree.

TRANSFER CREDIT APPLIED TOWARDS THE MASTER’S DEGREE

Graduate College Guidelines for Transfer Credit

The acceptance of transfer credit toward master’s degree programs at the University of Oklahoma is determined in accordance with the following criteria:

1. The coursework transferred represents valid graduate credit earned in graduate-level courses from an accredited college or university; and
2. The credit is not more than five years old at the time of admission or readmission to the degree program; and
3. The credit is applicable to the degree program; and
4. The credit is approved by the academic unit and the Graduate College Dean.

The credit must carry a grade of A, B, or S on a 4.0 scale, and the S grade must be equivalent to a B or higher. For institutions with an expanded grading system (+/- system), the transfer credit must be equivalent to 3.00 or higher. Grades of B- do not transfer.

Limitations on Transfer Credit Applied Toward the Master’s Degree

No more than 25 percent of the minimum number of credit hours required for the master’s degree may be transferred from other institutions. However, eight transfer hours may be accepted in a program that requires less than 34 credit hours.

Academic Units Unit Guidelines for Transfer Credit

Academic units with transfer rules more stringent than those of the Graduate College shall indicate in that section of the General Catalog which specifically describes their program. The rules of these academic units shall take precedence over those found elsewhere and are available in the Graduate College and the academic unit.

Transfer Credit From the Tulsa Campus

A list of degree and certificate programs offered by OU in Tulsa is available on the OU-Tulsa Web site at http://tulsagrad.ou.edu/tgc/. For students in Tulsa and admitted to one of the OU-Tulsa degree or certificate programs, graduate courses taken through the OU/OSU Research and Graduate Education Center will be treated as resident credit. However, the majority of hours applied toward the degree or certificate must be earned from the University of Oklahoma. In no case may more than 15 hours from OSU-Tulsa be applied toward an OU graduate degree. A student who interchanges more than eight hours of credit between Oklahoma State University and the University of Oklahoma must petition the Graduate Dean for permission to apply transfer credit from a third institution toward their degree program. The overall GPA on any such hours from OSU-Tulsa must be 3.0 or higher. Individual degree programs may impose more stringent residency requirements.

Information for Master’s Students
requirements. Students are encouraged to contact the academic adviser in the applicable academic unit regarding resident credit regulations.

Transfer Credit from the OU Health Sciences Center
Graduate coursework completed at the University of Oklahoma Health Sciences Center is considered residence credit. Upon approval by the academic unit and Graduate Dean, this credit may be used without limitations as credit toward a degree on the Norman campus.

Transfer Credit from the OneNet Conferencing System
An exception to the 25 percent limit on transfer credit is made for courses taken through the OneNet two-way video conferencing system. Up to 50 percent of the credit hour requirements for a master’s degree may be transferred from Oklahoma State University if the courses were taken via OneNet. Residence credit is granted for graduate-level coursework taken via OneNet when taught by a member of the University of Oklahoma graduate faculty.

Transfer Credit from a First Master’s Degree Applied Toward a Second Master’s Degree
Credit hours previously presented and counted for one master’s degree may not be applied toward satisfying the requirements of a second master’s degree with the exception of approved dual degree programs.

Transfer Credit from a Professional Degree Applied Toward a Master’s Degree
With the approvals indicated above, the credit from a professional degree (e.g., DD, MD, JD, DVM, DDS) may be applied toward a master’s degree as transfer credit, provided that such courses carry a grade of B or better and have been approved for graduate credit.

Transfer Credit in Absentia
Courses and fieldwork done in absentia may be transferred in rare cases upon recommendation of the academic unit and with approval of the Graduate Dean.

Transfer Credit From Advanced Standing Exams
No graduate credit may be earned by advanced standing examinations.

Transfer Credit and Grade Point Average Computation
Transfer credit is considered neutral in the computation of the University of Oklahoma grade point average for the purpose of determining continued admissibility and graduation.

COURSE CREDIT LIMITATIONS
3000/4000-Level Courses
With approval of the academic unit, a student may apply up to a total of 12 credit hours of 3000 and/or 4000 level courses that carry graduate credit toward a 30 to 36 credit hour master’s degree. For any graduate degree requiring more than 36 credit hours, a student may apply up to one-third of the total credit hours, but no more than 16 credit hours of 3000- and/or 4000-level courses toward the degree. A maximum of three-fourths of the credit hours of 4000-level courses permitted by the Graduate College may be from the academic unit offering the degree (e.g., nine hours on a 30- to 36-hour master’s degree). No 3000-level courses from the academic unit offering the degree may apply toward any of its graduate degrees.

A student who has special coursework needs that cannot be met within the limitations listed above may petition the Graduate Dean for an exception to the limitations. The petition must be submitted before the student completes 12 hours of graduate work in the program. The petition must contain a detailed justification for requesting the exception and must list all courses to be applied toward the graduate program. The petition must be endorsed by the student’s graduate liaison. The Graduate Dean will make a decision based on the merit of the petition. This decision will not be considered as a precedent for further petitions requesting an exception to the number of 3000/4000-level courses that can be applied toward a graduate degree.

S/U Graded Courses
No more than one-half of the coursework for an OU master’s degree, excluding research for the thesis (5980), may be S/U graded coursework.

Research for Master’s Thesis Credit
Within the limit of six credit hours, each academic unit must set the number of credit hours of Research for Master’s Thesis (course 5980) that may be counted toward the master’s degree. Each academic unit must inform the Graduate College of its limits.

Application of Credit from an Unsuccessful Graduate Program to Another Graduate Program
Courses taken prior to failing either the comprehensive examination for the second time or the thesis defense can count for no more than 25% of the credit hours required for a master’s degree at the University of Oklahoma. These courses must be applied to a different academic program than the one in which the student failed the comprehensive examination or thesis defense, and must be applicable to the new degree program. The student must gain admission to a different program, and have permission from that academic unit and the Dean of the Graduate College to include the courses taken for the first graduate program. Courses taken prior to failing the general examination for the second time may count for no more than 25 percent of the credit hours required for a master’s degree at the University of Oklahoma and then only if the courses were taken within five years of the student’s admission to the master’s degree. The student must gain admission to the master’s program. No credit hours from a failed graduate degree can be applied directly to a doctoral program. However, no distinction will be made on credit hours from a successful master’s degree that are applicable toward a doctoral degree.

TIME LIMITS FOR COMPLETION OF THE MASTER’S DEGREE
Graduate College Time Limits
A student registered in a master’s degree program will normally complete all of the degree work within five calendar years after the student’s first semester of graduate enrollment at the University of Oklahoma.

Academic Unit Time Limits
Academic units with shorter time limits shall so indicate in those sections of the General Catalog which refer specifically to their programs. This information also is available in the Graduate College and the academic unit. Students in these programs must abide by the lesser time period. No program may set a longer period for degree completion than that established by the Graduate College.

Extensions
If additional time is necessary and proper to complete the degree, the student’s committee should petition the Graduate Dean for an extension. This petition must be endorsed by the graduate liaison. Extensions may be granted for a variety of reasons that may include, but are not limited to, job relocation, military duty, pregnancy, illness, a serious accident, divorce, or other personal tragedies within the immediate family. The extension may be granted with qualification or it may be denied. An extension of time for completion of degree requirements does not affect the limitations of the number of allowed overage credit as outlined below in “Course Age Limits.”

Extensions over One Year
Extensions exceeding one year will require that the academic unit certify that the student’s knowledge is current and appropriate to the degree at the time it is awarded. The academic unit is required to describe how it will determine that the student is current in the field at the time the degree is awarded. This may involve re-examination or additional coursework. See below, “Validating Overage Coursework.”

Course Age Limits
Graduate credit taken at the University of Oklahoma or at another accredited university that is to be applied toward a master’s degree must not be more than five years old at the time of admission or readmission to the Graduate College. No more than one-quarter of the total credit hours (residence credit and transfer credit, if any) applied toward the master’s degree can be more than five years old at the time of graduation.

Validating Overage Coursework
Directed readings may not be revalidated. Regular courses must be revalidated on a course-by-course basis. Overage transfer credit cannot be revalidated.
No course for which a grade less than B was earned may be revalidated. In general, validating overage coursework requires that two issues are addressed.

1. The student’s advisory committee is expected to review the content of the overage courses to determine if that content represents the current state of the discipline. The credit hours in question may be applied toward a degree only to the extent that they represent current knowledge.

2. The more important issue is whether the student has maintained competency in the subjects covered in the overage courses. In general, the Graduate College would not accept an informal evaluation based on the thesis, but would expect that the student’s currency be subject to a more thorough and rigorous scrutiny. Usually this is accomplished by means of a written examination, although strong evidence of continuing creative activities in the areas represented by the coursework is also acceptable in lieu of an examination. Generally “continuing creative activities” are taken to be refereed publications or presentations of original research at state, regional or national meetings.

It is the student’s currency in the subject matter that is to be determined and not an evaluation of the course as it is currently taught.

ADMISSION TO CANDIDACY

A student who has done satisfactory graduate work and has maintained an overall grade point average of at least 3.00 on all resident graduate level courses and on all resident credit attempted may normally be admitted to candidacy for a master’s degree as soon as the student has enrolled in sufficient hours for the degree. A student can initiate the steps to schedule the comprehensive examination, the final oral/written examination, and/or the thesis defense only after he or she has received candidacy status.

Admission to Candidacy Form

An Admission to Candidacy form must be filed in the Graduate College no later than the first Monday in March (for summer graduates), the first Monday in April (for fall graduates) and the first Monday in October (for spring graduates). When appropriate, use the program-specific form. The Admission to Candidacy form must be signed by the graduate liaison in the student’s department. The liaison’s signature indicates that the proposed course of study has been approved. Only those graduate-level courses needed to complete the requirements of the degree should be listed on the Admission to Candidacy form. If graduate-level courses are listed in excess of those required for the degree, they will be considered part of the degree program. This can create problems for students who plan to complete a second master’s degree or a doctoral degree program.

The Graduate College must approve both sides of the form—the Admission to Candidacy side and the Program of Graduate Work side. All courses listed on the Program of Graduate Work side must be completed with a satisfactory grade. It is the student’s responsibility to make sure that all courses with I grades have been completed and that the I make up reports have been filed. Students pursuing a dual degree must file candidacy forms for both programs in the Graduate College before the Graduate College will authorize the comprehensive examination or thesis defense.

Information Packet

When the student files the Admission to Candidacy form, he or she should obtain written instructions governing the completion of the master’s degree. Two packets, “Information for Master’s Candidates-Thesis Option” and “Information for Master’s Candidates-Non-Thesis Option,” are available in the Graduate College. This information is also available on the Graduate College Web site at http://gradweb.ou.edu. Students are encouraged to obtain this information at least two semesters prior to the completion of their program of study.

Changes to the Admission to Candidacy Form

Any addition, deletion or other modification to the Admission to Candidacy form must be submitted in writing to the Graduate College and signed by the graduate liaison of the student’s academic unit. The student is solely responsible for contacting the graduate liaison, requesting that the modification to the Admission to Candidacy form be authorized, obtaining the required signatures, and forwarding the modifications to the Graduate College. Failure to undertake these steps could delay a student’s graduation.

Thesis Option

A master’s thesis is the product of individual research. It should represent an original contribution to the academic field of knowledge, and it must represent original research by the student.

Thesis Topic and Committee Selection

A student in a thesis track program must work with an adviser to select both a thesis topic and a thesis committee. The thesis topic and committee must be chosen no later than the semester in which the student is required to submit the Admission to Candidacy form, or following the procedures established by the academic unit, if earlier.

Thesis Committee Selection

The committee must consist of a major professor and at least two other members of the graduate faculty. The Graduate Dean must approve the committee members. In rare circumstances the Graduate Dean may appoint additional members to a student’s master’s thesis committee.

Application for Approval of the Master’s Thesis Topic and Committee Membership

The Application for Approval of the Master’s Thesis Topic and Committee Membership form must be signed by all the committee members and the graduate liaison of the academic unit. This form must be filed in the Graduate College at the time the Admission to Candidacy form is filed. No substitute forms will be approved by the Graduate College and only forms correctly completed, with original signatures, will be evaluated.

Changes to Thesis Committee or Thesis Subject

If there are any changes in either the committee membership or the topic of the thesis, a new Application for Approval of the Master’s Thesis Topic and Committee Membership form must be completed. Changes in either the thesis topic or thesis committee membership must be fully approved by the Graduate College at least 14 days prior to the thesis defense.

CHANGE IN TITLE

Changes to the title (not topic) listed can be made with permission of the Graduate Dean.

CHANGE IN TOPIC

If the thesis topic changes, all committee members and the graduate liaison of the academic unit must sign the new form.

CHANGE IN COMMITTEE MEMBERSHIP

If the committee membership changes, all members of the new committee and all members of the previous committee must sign the new form. If a member of the previous committee is not in residence during the semester of the defense, then the chair or director of the academic unit may sign the form. Any faculty member who is being replaced and who is in residence during the semester of the defense, must indicate approval of the change by signing the back of the new form. This signature indicates a willingness to be deleted from the committee. If the committee member being replaced is no longer employed by the University of Oklahoma, the Graduate College should be contacted for instructions on completing the new form.

THE THESIS

Copies of instructions for writing the thesis are available in the Graduate College or on our Web site at http://gradweb.ou.edu.

ENROLLMENT REQUIREMENTS FOR THESIS RESEARCH

The initial enrollment in “Research for the Master’s Thesis” (5980) must be for at least two credit hours. Following the initial enrollment in “Research for Master’s Thesis” (5980), the student must maintain continuous enrollment on the home campus at the University of Oklahoma in at least two hours of 5980 during each regular semester until all degree requirements are completed or the candidacy is discontinued.

Number of Thesis Credit Hours

The minimum enrollment in 5980 is two hours each semester. The number of thesis credit hours for each enrollment will be determined by the faculty adviser on the basis of the amount of faculty and University services required by the individual student. A student working full-time on the
Graduate College

Information for Master’s Students

Thesis and using University facilities should enroll in at least nine hours of 5980 in regular semesters and four hours of 5980 during summer sessions. Such enrollments must be completed during the regular registration period.

Summer Enrollment in 5980
Students are not required to enroll in 5980 during the summer session unless any one of the following apply:
- the student is actively working on the thesis; or
- the student is seeking committee advice on the thesis; or
- the student is otherwise using University facilities; or
- the degree is conferred in the summer session.

Exceptions to Continuous Enrollment in 5980
The continuous enrollment regulation will be waived for a student who is not working on the thesis and who is enrolled in at least nine graduate credit hours per regular semester. However, if thesis work is being done during a regular semester or summer session, a student must enroll in 5980 regardless of the number of other hours of enrollment. Other exceptions to the continuous enrollment regulation will be considered on an individual basis by petition to the Graduate Dean.

Enrollment Non-compliance
In the event that a graduate student does not comply, or has not complied, with the enrollment provisions above, then the student must enroll during the semester in which graduation is expected in the exact number of hours of 5980 that would have been completed with continuous enrollment. In addition, the student must pay a late enrollment fee for each of these semesters. Retroactive fees and tuition are assessed at the current semester rates. The final determination of the number of hours of 5980 in which the student must enroll in the final semester of the degree program, along with the collection of the appropriate fees, is the responsibility of the Graduate College and the Bursar’s Office.

Thesis Defense
The candidate is permitted only one thesis defense. A student must be enrolled for credit in at least two graduate credit hours at the University of Oklahoma in the semester in which the thesis defense is taken.

Thesis Draft
The student is responsible for providing every member of the Thesis Committee with a draft of the thesis. The Thesis Committee will determine the timing of the student’s submission of the draft in order to give committee members sufficient time to review the thesis prior to the deadlines for submitting a reading copy to the Graduate College.

Authority for the Thesis Defense
The reading copy must be presented in person (not by mail) to the Graduate College two days before the thesis defense. Once the reading copy of the thesis is approved, the Graduate College will issue to the student the Authority Report Form of the Thesis Defense. The student may not defend until this authority form has been issued. Failure to obtain the authority form may negate the results of a successful thesis defense. Authorization for the defense is valid for the period listed on the form. If the defense is not completed during this period, the Graduate College must be notified and the form returned marked “Not Taken.”

The Defense
All members of the thesis committee and the student must be present and participate in the thesis defense. The thesis defense may not be held when the University is not in session, during the period of final course examinations, or when a suitable committee cannot be assembled.

Decision
Within 72 hours of the thesis defense, the chair of the committee will report the committee’s decision to the Graduate Dean on the Authority Report Form of the Thesis Defense. All members of the thesis committee must sign the report form. A unanimous vote at the defense of the thesis is expected; however, on occasion some dissenting reports are received.

Dissenting Votes
If one member of the thesis committee dissents, the dissent is recognized as a minority report. If the committee consists of more than three members and two dissent, then the Graduate Dean will investigate and make a final decision. If more than two members of the Committee vote unsatisfactorily, the thesis defense will be judged a failure regardless of how the majority of the Committee votes.

Unsatisfactory Defense
If the defense is determined to be unsatisfactory, this decision is final and the defense cannot be repeated. Further, the student will be automatically dropped from the rolls of the Graduate College and the student’s candidacy for a master’s degree will be automatically terminated. Nothing herein shall prohibit such a student from pursuing a master’s degree in some other major field as long as the student satisfies all necessary requirements under the then-applicable rules and regulations of the University of Oklahoma, its colleges and its academic units. Courses taken prior to failing the thesis defense can count for no more than 25 percent of the credit hours required for a master’s degree at the University of Oklahoma. These courses must be applied to a different academic program than the one in which the student failed the thesis defense and must be applicable to the new degree program. The student must gain admission to a different program, and have permission from the academic unit and the Dean of the Graduate College to include the courses taken from the first graduate program.

Satisfactory Defense
Once the thesis has been successfully defended, the student must deliver three originally signed, unbound copies of the thesis on white, 20-pound weight, 100 percent watermarked cotton or rag bond paper to the Graduate College. These copies must be brought to the Graduate College within 60 calendar days following successful defense of the thesis. They cannot be sent through the mail. Students who are planning to graduate in a particular semester must meet specific deadlines and may not have 60 days available. The Graduate College will review the thesis and perform a final degree check. If everything is in order, the student will receive a deposit form that must be signed by library personnel and returned by the student to the Graduate College.

Failure to Deposit Final Thesis with Library
If the thesis is not deposited in the library by the last day of the semester in which it was defended, the student may be required to enroll in additional hours. If the final thesis is not deposited in the library within 60 days of the defense, then the results of the first defense will be set aside and the student must repeat the thesis defense. A student required to repeat the thesis defense under these circumstances must present to the Graduate College a new reading copy of the thesis, which has received preliminary approval of the major professor. When this new reading copy has been accepted by the thesis committee, the student can then schedule the thesis defense. The student must be present in person for the thesis defense.

Graduation Completion
A student may not graduate until all degree requirements are completed, including depositing the final copy of the thesis in the Library.

Non-Thesis Option
Comprehensive Examination
A comprehensive examination is one of the requirements of a non-thesis program and cannot be waived. The examination may be either oral or written, or both. In any case, it should cover all work offered for the degree (fields, not courses). The maximum number of attempts to pass the master’s comprehensive examination is limited to two. A comprehensive examination is valid for two years from the end of the semester in which the comprehensive examination was taken.

Authority Report Form for the Comprehensive Examination
An Authority Report Form for the Comprehensive Examination must be requested in writing by the student’s chair or graduate liaison from the Graduate College prior to the administration of the examination, and at least one week before the examination. The authority report will not be issued until an Admission to Candidacy form is on file in, and has been approved by, the Graduate College. A student who has not completed the required or core courses and at least 75 percent of all coursework listed on the approved Admission to Candidacy form is not normally granted authority to take the comprehensive examination. Core courses are defined as those specific courses that must be taken as part of the degree.
They do not include courses taken from a prescribed list of courses. A
student who is on probation may not take the comprehensive examination
until probation status is cleared. The Graduate Dean must authorize the
examination and approve the examining committee, consisting of no fewer
than three persons. The authorization is valid for one semester only. The
comprehensive examination may not be held when the University is not in
session, during the period of final course examinations, or when a suitable
committee cannot be assembled. If the examination is not completed
during the semester in which authorization is given, the Graduate College
must be notified and the form returned marked “Not Taken.” A new form
must be obtained for the semester in which the examination is taken.

Enrollment Requirements During the Semester the
Comprehensive Examination is Taken
A student must be enrolled for credit in at least two graduate credit hours
at the University of Oklahoma in the semester in which the comprehensive
examination is taken.

The Comprehensive Examination
A student should never take the comprehensive examination before authority
is granted by the Graduate College. Failure to follow this procedure could
invalidate a satisfactory performance on the comprehensive examination. All
members of the committee must participate in the examination.

Decision
Within one week after the comprehensive examination is held, the
Authority Report Form of the Comprehensive Examination must be returned
to the Graduate College with the results and the signatures of all committee
members. A unanimous vote of the examining committee is expected;
however, on occasion some dissenting reports are received.

DISSENTING VOTES
If one member of the committee dissects, the dissent is recognized as a
minority report. If two of the committee members of an examining committee judge
the student’s performance unsatisfactory, the examination will be judged a
failure. If the committee consists of more than three members and two
dissent, the Graduate Dean will investigate and make a final decision. If
more than three members of the Committee vote that the student’s
performance is unsatisfactory, the student is judged to have failed the
examination.

FAILED EXAMINATION
If the comprehensive examination is failed, the student may, at the
discretion of the committee, repeat the examination once in the following
semester or later. The comprehensive examination may not be taken a
third time, nor may it be taken twice in the same semester.

FINAL EXAMINATION
A final examination consists of a thesis defense and a separate comprehensive
examination and is subject to the discretion of the academic unit. For those
programs requiring both the thesis defense and a separate comprehensive
examination, students will follow Graduate College and University
regulations regarding both the defense and the comprehensive examination.
Refer to the preceding sections on the “Comprehensive Examination” and
“Thesis Defense” for those requirements and procedures.

Enrollment Requirements During the Semester the Final
Examination is Taken
A student must be enrolled for credit in at least two graduate credit hours
at the University of Oklahoma in the semester in which the final
examination is taken. As a minimum, with department approval, a student
may enroll in these two hours as an auditor.

GRADUATION
A student must file for graduation. Students who fail to apply by the stated
deadlines will not be cleared for graduation until the semester all
requirements are completed.

Checklist for Thesis Option
- Apply to the Office of Admissions for admission to the Graduate
  College. (Have all transcripts of previous college studies sent to the
  Office of Admissions).
- Obtain registration materials. Consult the graduate liaison of your
  academic unit for an adviser. Plan your program of study; check the
  master’s degree requirements for your academic unit and the
  Graduate College Bulletin. Register for coursework.
- Select the members of your comprehensive exam committee in
  conjunction with your graduate liaison. Names must be included on
  the Admission to Candidacy form.
- No later than the semester in which you plan to start your thesis, select a thesis topic in conjunction with your adviser.
- Complete the Thesis Title form and have it signed by all members of
  your thesis committee and the graduate liaison for your academic
  unit. Return the form to the Graduate College at the time the
  Admission to Candidacy form is filed.
- File an Admission to Candidacy form for the master’s degree in the
  Graduate College. Obtain your packet from the Graduate College no
  later than the first Monday in March (for summer graduates), first
  Monday in April (for fall graduates) and the first Monday in October
  (for spring graduates). Some academic units have individualized
  Admission to Candidacy forms (which you obtain from them) and
  those that are not listed on the front of the packet need to obtain the
  generic form from the Graduate College.
- Enroll in a minimum of two credit hours of 5980 each semester
  following your initial enrollment in 5980.
- File for graduation. Deadlines are: Fall—November 1; Spring—March
  1; Summer—July 1.
- Check with the members of your examination committee to select an
  examination date and suitable hour. Notify all examination committee
  members of the time and place. Only one attempt is afforded the
  candidate to defend the thesis.
- Present a reading copy of your master’s thesis to the Graduate
  College two days prior to the defense.
- Obtain the Authorization for the Comprehensive Examination form
  approximately one week prior to the examination. For the thesis defense,
  obtain authorization at least two days prior to the defense. If non-thesis,
  check with the chair or graduate liaison in your academic unit.
- Within 72 hours after the thesis defense, or one week after the
  comprehensive or final examination, submit the report signed by all
  committee members to the Graduate Dean.
- Within 60 days after passing the thesis defense submit three copies of
  your thesis signed by all committee members to the Graduate College
  and then to the Library (Deadlines to graduate in a specific semester
  are listed in the official class schedule.)
- Return the signed deposit form to the Graduate College.
- Congratulations!

Checklist for Non-Thesis Option
- Apply to the Office of Admissions for admission to the Graduate
  College. (Have all transcripts of previous college studies sent to the
  Office of Admissions).
- Obtain registration materials. Consult the graduate liaison of your
  academic unit for an adviser. Plan your program of study; check the
  master’s degree requirements for your academic unit and the
  Graduate College Bulletin. Register for coursework.
- File an Admission to Candidacy form for the master’s degree in the
  Graduate College. Obtain your packet from the Graduate College no
  later than the first Monday in March (for summer graduates), first
  Monday in April (for fall graduates) and the first Monday in October
  (for spring graduates). Some academic units have individualized
  Admission to Candidacy forms (which you obtain from them) and
  those that are not listed on the front of the packet need to obtain the
  generic form from the Graduate College.
Information for Doctoral Students

Basic Requirements for the Doctoral Degree

The doctoral degree is awarded for excellence in research scholarship, not merely because a program of courses has been completed or a given amount of time spent in its pursuit. It signifies the attainment of independently acquired and comprehensive learning attesting to general professional competence.

A student should normally expect to spend at least the equivalent of three full academic years beyond the bachelor’s degree to obtain the doctoral degree. During this period the student shall take appropriate graduate coursework, successfully complete the General Oral and Written Examination, and submit and successfully defend the results of original dissertation research. The total number of hours, combining both formal courses and hours of research, for the doctoral degree will be at least 90 post-baccalaureate hours exclusive of the credit hours needed to gain proficiency in the tools of research. Credits accumulated to satisfy research tool requirements will not be accepted in fulfillment of the 90-hour requirement. After admission to the Graduate College, a student becomes a prospective candidate at the discretion of the student’s Advisory Committee. Full candidacy is granted only upon successful completion of the General Oral and Written Examination.

Residence Requirements

The primary purpose of residence requirements is to encourage the educational and professional development of individuals seeking advanced degrees. The opportunity for the student to interact with the faculty and other students in the University community, while freely using all the facilities thereof and being in a position to take advantage of a wide variety of cultural opportunities, justifies a relatively extended campus stay. In addition, it is obviously necessary that the University be in a position to oversee the development of the candidate, especially during the formal stages of the student’s final preparation for the General Examination. The student must be in residence as a full-time student at OU for at least two consecutive 16-week semesters and be engaged in coursework or research activities as prescribed by the major academic unit. This requirement may not be fulfilled during the completion of a master’s degree.

Responsibilities of the Academic Unit and Graduate Studies Committee

Within the powers delegated to the Academic Unit by the University, each academic unit offering the doctoral degree shall be responsible for, and determine how, its graduate program shall function. These determinations shall include how many hours of coursework constitute a minimum for the degree; what proportion of the work toward the degree is to be devoted to research; and the role of the dissertation. Further, each division shall make its own rules regarding the time that prospective candidates may spend, or work they may do, other than toward the degree itself, in classroom, laboratory, or research assistance or instruction. Research proficiency is based in part on the development of attitudes and skills that vary considerably from one field to another. The faculty for each degree program is responsible for requiring that the doctoral candidate demonstrate proficiency in those skills deemed necessary for successful research performance. A faculty may, for example, require its students to demonstrate ability to read, write, or speak one or more foreign languages, to employ statistics in analyzing data or to program for the computer. The time and means of certifying prospective candidacy shall be decided by the academic unit of the University offering the degree. When a student has been accepted as a prospective candidate, the Graduate College shall be formally notified.

Course Credit Requirements

All resident credit required for a doctoral degree must be taught by members of the graduate faculty of the University of Oklahoma. Some course credit may be transferred from other institutions, under certain conditions. Courses completed through correspondence study are not acceptable towards the doctoral degree.

TRANSFER CREDIT APPLIED TOWARD THE DOCTORAL DEGREE

Graduate College Guidelines for Transfer Credit

The acceptance of transfer credit toward doctoral degree programs at the University of Oklahoma is determined in accordance with the following criteria:

- The coursework transferred represents valid graduate credit earned in graduate-level courses from an accredited college or university; and
- The credit is not over five years old at the time of admission or readmission to the degree program; and
- The credit is approved by the academic unit and the Dean of the Graduate College; and
- The credit is applicable toward the degree; and
- The credit carries a grade of A, B, or 5 on a 4.0 scale. The S grade must be equivalent to a B or higher. For institutions with an expanded grading system (+/- system), the course grade must be equivalent to 3.00 or higher. Grades of B- do not transfer.

Limitations on Transfer Credit Applied Toward the Doctoral Degree

The number of transfer hours accepted for each student is determined on an individual basis at the advisory conference. However, under no circumstances will more than 44 transfer credit hours be applied toward a doctoral degree. Correspondence, extension, and Advanced Programs credit beyond that permitted on the master’s degree is not accepted in the doctoral program. Credit used for one doctoral degree cannot be applied toward a second doctoral degree. Transfer credit for thesis research from a completed master’s degree may be applied toward a doctoral degree but is limited to the total thesis hours required for the degree. If a master’s degree has been applied toward one doctoral degree, it cannot be applied toward a second doctoral degree.

Academic Unit Guidelines for Transfer Credit

Academic units with transfer rules more stringent than those of the Graduate College shall so indicate in that section of the General Catalog that specifically describes their program. The rules of these academic units shall take precedence over those found elsewhere and are available in the Graduate College or the academic unit.

Transfer Credit From the OU Health Sciences Center

Graduate coursework completed at the Oklahoma Health Sciences Center is considered residence credit. Upon approval of the academic unit and Graduate Dean, this credit may be used without limitations as credit toward a degree on the Norman campus.

Transfer Credit From a Professional Degree Applied Toward a Doctoral Degree

Up to 14 credit hours beyond the master’s degree may be applied from a professional degree (JD, MD, DVM or DDS) toward the doctoral degree if the credit is approved by the Advisory Conference Committee and the Graduate Dean. Courses transferred from a professional degree must carry a grade of S or B or better and be approved by the University of Oklahoma Health Sciences Center or College of Law for graduate work.
Transfer Credit From Advanced Standing Exams
No graduate credit may be earned by advanced standing examinations.

Transfer Credit and Grade Point Average Computation
Transfer credit is considered neutral in the computation of the University of Oklahoma grade point average for the purpose of determining continued admisibility and graduation.

Application of Credit From an Unsuccessful Graduate Program to Another Graduate Program
No credit hours from a failed master’s or doctoral program can be applied directly to a doctoral program.

Transfer of Master’s Degree Credit Applied toward the Doctoral Degree
Credit applied to a completed master’s degree from the University of Oklahoma is regarded as transfer credit in relation to a subsequent doctoral degree at the University of Oklahoma. The Graduate College recognizes that master’s degree programs range from 30-64 hours, depending upon the discipline and the course of study. Where applicable, a student may transfer up to 44 semester hours of a completed master’s degree program (or the equivalent) toward a doctoral degree, regardless of age, provided that all transfer credits were approved by the Advisory Conference Committee, the graduate liaison and the Graduate Dean. In cases where a master’s degree program of less than 44 semester hours has been completed, a student may transfer up to 14 semester hours of post-master’s coursework or up to 14 semester hours from a second master’s degree (but not more than a total of 44 hours) toward a doctoral degree program, provided that the Graduate College guidelines concerning transfer credit are met.

Application of Credit More than Five Years Old
Graduate courses taken at the University of Oklahoma more than five years before admission or readmission to a doctoral program cannot be applied toward the doctoral degree unless the courses are part of a completed master’s degree, all of which is to be used toward satisfying the doctoral requirements. In special cases, graduate courses more than five years old may be used if recommended and validated by the student’s doctoral committee and the appropriate graduate liaison and approved by the Graduate Dean. Approval of the Graduate Dean must be obtained prior to beginning the validation process. See the section “Validating Overage Coursework.”

COURSE CREDIT LIMITATIONS

3000/4000 Level Courses
With approval of the academic unit, a student may apply up to 16 credit hours of 3000- and/or 4000-level courses that carry graduate credit toward the 90 hours required for a doctoral degree. A maximum of 12 credit hours of the 4000-level courses may be from the academic unit offering the degree. No 3000-level courses from the academic unit offering the degree may apply toward the degree.

A student who has special coursework needs that cannot be met within the limitations listed above may petition the Graduate Dean for an exception to the limitations. The student must submit the petition before 12 hours of graduate coursework in the doctoral program has been completed. The petition must contain a detailed justification for requesting the exception and must list all courses to be applied toward the graduate program. The Graduate Dean will make a decision based on the merit of the petition. This decision will not be considered as a precedent for future petitions requesting an exception to the number of 3000- and 4000-level courses that can be applied toward a graduate degree.

S/U Graded Courses
No more than one-half of the coursework for a doctoral degree (excluding 6980) may be S/U graded coursework.

TIME LIMITS FOR PROGRAM COMPLETION

Graduate College Requirements
A doctoral student who enters the University of Oklahoma graduate program with a bachelor’s degree is expected to pass the general examination within five calendar years of the student’s first graduate enrollment in the doctoral program at the University of Oklahoma. A doctoral student who enters the University of Oklahoma program with a master’s degree is expected to pass the general examination within four calendar years of the student’s first enrollment in a post-master’s course used toward the doctoral degree. A student becomes a doctoral candidate upon successful completion of the General Examination. A doctoral candidate is normally expected to complete all degree requirements, including the written dissertation and its defense, within five years after passing the General Examination.

Academic Unit Time Limits
Academic units with shorter time limits shall so indicate in those sections of the General Catalog which refer specifically to their programs. This information also is available in the academic unit and the Graduate College. Students in these programs must abide by the lesser time period. No program may set a longer period for degree completion than that established by the Graduate College.

Extensions
When additional time is necessary and proper, the student’s committee should petition the Graduate Dean for an extension. Extensions may be granted for a variety of reasons which may include, but are not limited to, job relocation, military duty, pregnancy, illness, a serious accident, divorce, or other personal tragedies within the immediate family. Requests for an extension beyond one year require the student’s committee to document that the student’s knowledge is current and appropriate to the degree being sought. See the section below, “Validating Overage Coursework.” All extensions require the final approval of the Graduate Dean.

Validating Overage Coursework
Directed Readings may not be revalidated. Regular courses must be revalidated on a course by course basis. Overage transfer credit cannot be revalidated. The process for validating overage coursework must have the approval of the Graduate Dean. Once the validation is completed, a report indicating how the validation was completed and by whom should be submitted to the Graduate College. When validating overage coursework there are two issues to address:

1. The student’s advisory committee is expected to review the content of the overage courses to determine if that content represents the current state of the discipline. The hours in question may be applied toward a degree only to the extent that they represent current knowledge.

2. The second and most important issue is whether the student has maintained competency in the subjects currently addressed in these courses. The Graduate College will not accept an informal evaluation based on the dissertation but expects instead that the student’s currency be subject to a more thorough and rigorous scrutiny. Usually this is accomplished by means of a written examination, although strong evidence of continuing creative activities in the areas represented by the coursework also is acceptable in lieu of an examination. Generally “continuing creative activities” are taken to be refereed publications or presentations of original research at state, regional or national meetings.

Remember, it is the student’s currency in the subject matter that is to be determined and not an evaluation of the course as it is currently taught.

ADVISORY CONFERENCE
Each academic unit should schedule the prospective candidate for an advisory conference within the first year of enrollment. The purpose of the advisory conference is to aid the student in developing an overall plan for attaining a doctoral degree.

ADVISORY CONFERENCE COMMITTEE
Advisory Conference Committee Membership
The Advisory Conference Committee must consist of at least five graduate faculty members, including at least one regular graduate faculty member at the University of Oklahoma from outside the major academic unit. Advisory Conference Committee membership follows the same guidelines and exclusions as those stated in the Doctoral Committee membership section.
Advisory Conference Committee Function
The Advisory Conference Committee will examine the student’s previous graduate record to determine the coursework required to meet the student’s individual needs. If there are deficiencies, the Advisory Conference Committee will advise the student how best to correct them. The committee’s standard of judgment shall be a well-balanced program suitable to the background, as well as the educational and professional needs of the advisee.

Report of Advisory Conference
After the advisory conference is held, the student must file a completed Report of Advisory Conference. This report contains:
• the courses the student will complete in order to meet the doctoral degree requirements; and
• the members of the student’s doctoral committee.
The report must be signed by the student, the advisory committee, the graduate liaison of the academic unit, and approved by the Graduate Dean.

Changes to the Advisory Conference Report
If a change in the Report of Advisory Conference becomes necessary, a Request for Change in Doctoral Advisory Conference Report must be filed, with approval, by the Graduate Dean. All members of the committee must approve the request.

DOCTORAL COMMITTEE
Doctoral Committee Membership
Members of the Advisory Conference Committee and the Doctoral Committee shall be selected by the chairperson of the academic unit, or the chairperson’s designee, in consultation with the student. In most cases, the Advisory Conference Committee will become the student’s Doctoral Committee. The majority of the Advisory Conference and Doctoral Committee’s members must remain within the student’s major academic unit. The Graduate Dean must approve any exceptions to the required composition of the committee.

THE OUTSIDE MEMBER
In addition to the responsibilities shared by all committee members, the outside member is charged with assuring that the rights and interests of both the student and the Graduate College are maintained. As such, no meeting of the doctoral committee should be convened without the outside member’s presence. The outside member must be familiar with the rules, regulations, policies and quality standards of the Norman campus Graduate College. The definition of the outside member as a “regular graduate faculty” precludes faculty from the College of Law, the Health Sciences Center and adjunct faculty from other universities and organizations, as well as retired University of Oklahoma Norman campus faculty from serving as the outside member on a student’s Advisory Conference or Doctoral Committee. The Graduate Dean may exercise the prerogative to appoint another outside member to serve as an evaluator for the Graduate College. The evaluator may be one of the required five graduate faculty members of the Doctoral Committee or may serve only at the time of the examination.

OTHER FACULTY MEMBERS
Faculty members from the College of Law, Health Sciences Center, etc., may, under appropriate circumstances, serve as members of Advisory Conference or Doctoral Committees. Indeed, it is the policy of the Graduate Council to encourage such interdisciplinary participation. Although College of Law faculty are automatically approved to teach graduate level courses, they may not serve on doctoral committees unless they receive an appointment to the graduate faculty.

SPECIAL FACULTY MEMBERS
Students may have a special member (adjunct faculty or faculty members from another university) appointed to their doctoral committee. If a student wishes to have an adjunct faculty member with a current special membership to the graduate faculty serve on an Advisory Conference or Doctoral Committee, the student’s academic unit must provide justification for allowing this person to serve on the Committee. All special members to the graduate faculty must have the approval of the Graduate Dean to serve on any doctoral Committee. Two special members may be approved if the student has a six-member committee. In no case can the majority of the committee be made up of special members. Special members to the graduate faculty may not, under any circumstances, serve as the outside member to a Doctoral Committee.

Doctoral Committee Function
Members of the student’s doctoral committee will be responsible for advising, directing, assisting and encouraging the student throughout the student’s career as a doctoral candidate. The student’s doctoral committee will:
1. prepare and conduct the General Examination,
2. supervise the preparation of the dissertation, and
3. conduct the final oral examination over the dissertation.
In addition, the doctoral committee may also handle other assignments regarding research tool requirements, qualifying examinations, etc.

Changes to the Doctoral Committee
If a doctoral student decides it is appropriate to change the composition of the doctoral committee, the student will seek counsel from the academic unit’s graduate liaison and the chair of the doctoral committee (the major professor). If it is determined that a committee change is appropriate, the student must process the change of committee form. If the major professor or a committee member from outside the academic unit is being replaced, the signatures of all current members of the committee, the new committee member(s), and the graduate liaison are required. The signature of a committee member from another university is not required. If any other committee member is being replaced, only the signatures of the major professor, the new committee member and the graduate liaison are required. The Graduate Dean will inform all current and proposed members of the doctoral committee of the decision made on the composition of the doctoral committee. No change in membership is permitted within 30 days of the general examination or the dissertation defense.

FACULTY ON LEAVE
Faculty members on leave may give blanket or individual written approval for committee changes that become necessary during their absence. If faculty members on leave have not given written approval for changes which become necessary during their absence, the department chair will have authority, with the approval of the Graduate Dean, to act for them on these changes.

RETIRED FACULTY MEMBERS
When a member of the advisory conference or doctoral committee terminates employment with or retires from the University and wishes to continue to serve on the committee, that member, in consultation with the student, must seek permission, in writing, from the Graduate Dean to continue to serve. The request should be made prior to the member’s leaving the University. The Graduate Dean will review the request and make a decision concerning whether it is appropriate for the member to continue to serve on the doctoral committee. The chair of a doctoral committee who terminates employment or retires from the University cannot continue to serve as chair, but may, with approval of the Graduate Dean, become co-chair of the committee. A request in writing countersigned by the student and the other co-chair should be submitted to the Graduate Dean prior to the faculty member’s leaving the University. The Graduate Dean will review the request and decide whether it is appropriate to permit the faculty member to remain on the committee as co-chair. In all cases, a member who is leaving the University should not expect to remain on the doctoral committee unless the following criteria can be met:

a. The faculty member is willing to consult regularly with the student, read the student’s dissertation, and attend the student’s final oral examination. All these must be accomplished with no cost to the University.

b. The student must have passed the general examination before the faculty member leaves the University.

c. The student should be in the final year of dissertation research when the faculty leaves the University.

GENERAL EXAMINATION
When coursework is nearly completed and all tools of research have been completed with a grade of B or better, the student should prepare for the General Examination. The General Examination consists of a written and oral portion. It is intended to test the student’s knowledge of the
number of related fields, as well as the student’s capacity for synthesis, sound generalization and critical ability.

Application for the General Examination
The student must be in good academic standing during the semester the general examination is taken. In addition, the student must enroll in at least two graduate credit hours at the University of Oklahoma in the semester the General Examination is held. The student must apply for the General Examination at least two weeks before any portion of the General Examination will be held. The Application for General Examination must be completed and signed by the student, the members of the Doctoral Committee, and the graduate liaison of the academic unit. It is then submitted to the Graduate Dean for approval. Failure to have authorization prior to taking the General Examination could invalidate the General Examination.

Arranging the General Examination
After the Graduate Dean authorizes the General Examination, the student should arrange with the doctoral committee a time and place for the General Examination. The General Examination cannot be scheduled when classes are not in session, during finals week, or at any time when the doctoral committee cannot be assembled. The student must complete the General Examination during the semester in which the authority is given. Both the written and oral portions should be taken during the same semester. If the examination is not held, a report indicating the reasons why it was postponed must be submitted to the Graduate College, and the student must reapply for the General Examination.

The General Examination
The first part of the General Examination consists of written examinations in the major and (if any) the minor fields and is the responsibility of the Doctoral Committee. The written examination is followed by an oral examination in the presence of the entire committee. The doctoral committee should meet to determine the results of the written examination. If the examination is failed, proceed to the section below “Failed General Examination.” A student cannot proceed to the oral portion of the General Examination until the written examination has been satisfactorily completed.

Results of the General Examination
Within 72 hours of the oral portion of the General Examination, the chair of the Doctoral Committee will submit a written report signed by all members of the committee to the Graduate Dean. This report should indicate whether the student has passed or failed the examination. If the student has passed, the Graduate Dean will admit the student to candidacy for the doctoral degree.

MARGINAL EXAMINATION RESULTS
If the student’s performance is marginal, but not failing, and the examining committee wishes the student to do further reading, coursework, investigations, etc., the results of the examination can be held in abeyance with approval of the Graduate Dean. The committee’s request for an abeyance should state a specific time period (usually limited to two months but no longer than one semester) in which the student has to complete the extra work. At the end of the time limit the committee must file a report with the Graduate College indicating whether the exam was satisfactory or unsatisfactory.

DISSENTING REPORTS
The Graduate Dean will review any report with a dissenting vote received in the Graduate College. The Graduate Dean may choose to confer with the dissenting member(s), with the committee chair, or with the entire committee. The course of action taken by the Graduate Dean is dictated by the circumstances of the individual case. The decision of the Graduate Dean is final.

FAILED GENERAL EXAMINATION
If any portion (written or oral) of the general examination is failed, a report must be submitted to the Graduate Dean indicating that the General Examination was failed. If the General Examination is failed, the student may, on the decision of the committee, make application to repeat the examination a second time in a subsequent semester. If a student fails any portion of the general examination on the second attempt, the student will be terminated from the doctoral program. The General Examination may not be given a third time.

DOCTORAL DISSERTATION
The doctoral dissertation is the final and most important component of the series of academic experiences that culminate in the awarding of the doctoral degree. Three major functions are fulfilled by the dissertation experience:
1. It is a work of original research scholarship that makes a contribution to existing knowledge.
2. It demonstrates the candidate’s mastery of research methods and tools of the special field.
3. It demonstrates the student’s ability to address a significant intellectual problem and arrive at a successful conclusion.

Aided by the major professor, the student should select a dissertation topic. After the General Examination, most of the student’s time will be devoted to research and composition. The student also must enroll in enough hours of 6980 to meet the minimum requirements of the academic unit.

USE OF HUMAN OR ANIMAL SUBJECTS
All research involving human subjects or the use of data generated via human subjects research, which will result in publication or presentation, must be reviewed and approved by the University of Oklahoma-Norman Campus Institutional Review Board (OU-NC IRB) prior to subject recruitment and data collection. All human subjects research to be performed by faculty, staff or students of the University of Oklahoma-Norman campus, Tulsa campus, or conducted by Cameron University faculty, staff or students must be reviewed by the OU-NC IRB. The primary role of the OU-NC IRB is to determine if the rights and welfare of human subjects who volunteer to participate in research studies are adequately protected and to ensure that adequate informed consent procedures are used. The University of Oklahoma-Norman Campus policy for the protection of human subjects in research activities and IRB application materials can be accessed at the following:
- Policy: http://research.ou.edu/policy/IRB_Human_Subjects_Policy.html
- Form: http://research.ou.edu/Forms/InternalFormsIndex.htm#forms_irb

If you have questions about compliance or the IRB approval process, you may contact the Office of Research Services at (405) 325-4757 or e-mail irb@ou.edu.

ENROLLMENT REQUIREMENTS FOR RESEARCH FOR DOCTOR’S DISSERTATION
The initial enrollment in “Research for the Doctor’s Dissertation” (6980) must be for at least two credit hours. Following the initial enrollment in “Research for Doctor’s Dissertation” (6980), the student must maintain continuous enrollment on the University of Oklahoma Norman campus in this course until dissertation hours are completed and the doctoral degree program is completed.

Number of Dissertation Credit Hours
The minimum enrollment in 6980 is two hours each semester. The number of dissertation credit hours for each enrollment is determined by the faculty adviser on the basis of the amount of faculty and University services required by the individual student. However, each enrollment will not be less than two hours. A student working full-time on the dissertation and using University facilities should enroll in at least nine hours of 6980 in regular semesters and four hours of 6980 during summer sessions.

Summer Enrollment in 6980
Students are not required to enroll in 6980 during the summer session unless any one of the following apply:
- the student is actively working on the dissertation; or
- the student is seeking committee advice on the dissertation; or
- the student is otherwise using University facilities; or
- the degree is conferred in the summer session.

Exceptions to Continuous Enrollment in 6980
The continuous enrollment regulation can be waived for a student who is not working on the dissertation and who is enrolled in at least nine graduate credit hours per regular semester. However, if dissertation work is being done during a regular semester or summer session, a student must enroll in 6980 regardless of the number of other hours of enrollment.
Information for Doctoral Students

Other exceptions to the continuous enrollment regulation are considered on an individual basis by petition to the Graduate Dean.

Enrollment Non-compliance
In the event that a graduate student does not comply, or has not complied, with the enrollment provisions above, the student must enroll during the semester in which graduation is expected in the exact number of hours of 6980 which that would have been completed with continuous enrollment. In addition, the student must pay a late enrollment fee for each of these semesters. Retroactive fees and tuition are assessed at the current semester rates. The final determination of the number of hours of 6980 in which the student must enroll in the final semester of the degree program, along with the collection of the appropriate fees, is the responsibility of the Graduate College and the Bursar’s Office.

Enrollment Requirements for Music 6880
The same regulations as listed above for continuous enrollment in 6980 apply for the Doctor of Musical Arts document (MUS 6880).

Oral Examination/Dissertation Defense

PREPARATION FOR THE ORAL EXAMINATION

Graduation Application
The Application for Graduation indicates the student’s name exactly as it is to appear on the diploma and gives the exact degree to which the student has been admitted to candidacy. This application must be filed with the Office of Academic Records. The graduation application is good for a maximum of three consecutive academic terms. All doctoral candidates must pay a $54 microfilming fee in the Office of the Bursar.

Degree Check
The student must complete the Degree Check card and return it to the Graduate College at least two weeks prior to the submission of the reading copy.

Dissertation Reading Copy
The doctoral candidate should prepare and distribute reading copies of the dissertation to each doctoral committee member at least one month prior to the defense. At least five members of the committee must read and determine whether the dissertation demonstrates the student’s ability to conduct original research and makes a significant contribution to the student’s discipline. The committee may accept or reject the dissertation. If the committee rejects the dissertation, the student will have another opportunity to submit an acceptable dissertation to the committee. If the committee accepts the dissertation, it may require changes and corrections.

When the reading copy has received preliminary approval by the major professor and the other members of the committee, it should be submitted to the Graduate College along with the completed Request for Authority for Defense of Dissertation. The reading copy should be submitted to the Graduate College at least two weeks prior to the defense. In addition, it should be submitted according to the deadlines available on the Office of Admissions and Records Web site, [http://www.ou.edu/admrec/calendar.html](http://www.ou.edu/admrec/calendar.html), for each semester or summer session. The reading copy should be in an acceptable dissertation format and must include all figures and tables, numbered pages and a complete bibliography. It should not contain grammatical or spelling errors. Printed instructions for the preparation of the dissertation are available in the Graduate College and also are available on the World Wide Web at [http://gradweb.ou.edu](http://gradweb.ou.edu).

The Graduate College will not review dissertation reading copies without the completed Request for Authority for Defense of Dissertation. The signature of the graduate liaison will not be interpreted as approval of the reading copy but will acknowledge that all academic unit requirements have been satisfied.

FINAL ORAL EXAMINATION (DISSERTATION DEFENSE)
The Final Oral Examination is a defense of the dissertation and is open to the public. Only one attempt is afforded in defending the dissertation.

Authority Form for Final Oral Examination
Authority to hold the dissertation defense must be obtained from the Graduate College. When the reading copy of the dissertation is acceptable and a degree check indicates that the student has completed all coursework with acceptable grades, the Graduate College will issue to the student the Authority Report Form for Final Oral Examination. The student will also receive the Survey of Earned Doctorates form, the Entry Form for Dissertation Title, the Graduation Exit Survey and the UMI Agreement, Publishing Your Dissertation.

Deadlines
The Final Oral Examination must be taken during the semester it is authorized to be given. The examination must be given no later than the last day of classes of the semester it is authorized. For deadlines, refer to the Information for Candidates for the Doctoral Degree packet.

The Examination
The student and at least four members of the Doctoral Committee if the committee has five members, including the outside member and major professor must be present in person to conduct the examination. If the committee consists of six members, then the major professor, the outside member, and three other committee members must be present for the examination. The Graduate Dean may exercise the prerogative to appoint an outside member to serve as an evaluator for the Graduate College. The evaluator may be one of the required five members of the Doctoral Committee or may serve only at the time of the examination.

Decision
Within 72 hours after the examination, the chair of the committee will report its decision to the Graduate Dean using the Authority Report Form for Final Oral Examination. A unanimous vote from the doctoral committee is expected; however, on occasion some dissenting reports are received.

DISSenting votes
If one member of the doctoral committee dissents, the dissent is recognized as a minority report. If two members dissent, the Graduate Dean will investigate and make the final decision. If more than two members dissent, the defense is judged a failure.

UNSatisfactory Oral Examination
If the defense is determined to be unsatisfactory, this decision is final and the defense cannot be repeated. Further, the student will automatically be dropped from the rolls of the Graduate College and his or her candidacy for the doctoral degree automatically terminated. Nothing herein shall prohibit such a student from reapplying for admission to the Graduate College and, if readmitted, pursuing a doctoral degree in some other major field so long as he or she satisfies all necessary requirements under the then applicable rules and regulations of the University of Oklahoma, its colleges and its departments.

SATisFACTory Oral Examination
Once the dissertation has been successfully defended, the student must deliver three originally signed, unbound copies of the dissertation on white, 20 pound weight, 100 percent watermarked cotton or rag bond paper to the Graduate College. These copies should be brought to the Graduate College within 60 calendar days following successful defense of the dissertation. Students who are planning to graduate in a particular semester must meet specific deadlines and may not have 60 days available. Along with the three copies, the candidate should complete and return to the Graduate College the Survey of Earned Doctorates form, Entry Form for Dissertation Title and Graduation Exit Survey form. The Graduate College will review the dissertation. If all is in order and the $54 microfilming fee has been paid, the student will receive a Dissertation Deposit Receipt that must be signed by library personnel and returned by the student to the Graduate College. The student is responsible for making sure all of the pages are in each of the three copies.
Deposit Dissertation in the Library
The doctoral candidate is responsible for the complete and accurate collation of the dissertation before submitting it to the Library.

FAILURE TO DEPOSIT DISSERTATION
The defense of the dissertation is valid for 60 days. If the student has not deposited the dissertation in the library by noon on the 60th day following the defense, the results of the defense are set aside and the student must re-defend the dissertation in person. The date of graduation is determined as indicated below and not by the date of the dissertation defense. In particular, the 60-day time limit on the validity of the defense in no way waives the time limits associated with the semester of graduation. If the dissertation is not deposited in the semester or session in which the final examination is given, the student is required to enroll in additional hours.

GRADUATION
Semester of Graduation
To graduate, a student must adhere explicitly to the deadlines published each year in the University of Oklahoma Class Schedule. Deadlines are absolute and no extensions can be granted. Failure to meet these deadlines will result in graduation being delayed until the following semester.

Checklist for Doctoral Students
- Apply to the Office of Admissions and Records for admission to the Graduate College. (Have all transcripts of previous college studies sent to the Office of Admissions and Records.)
- After admission, obtain registration materials. Consult with the graduate liaison of your major department for an advisor. To plan your program of study, check the doctoral degree requirements with your academic unit and the Graduate College Bulletin. Register for coursework.
- During your first academic year of enrollment, in consultation with the department graduate liaison and/or chairperson of the Graduate Studies Committee, schedule your Advisory Conference to plan your program of study. At the conference, it is the duty of the chair to secure approval of each committee member and file the Report of Advisory Conference in the Graduate College.
- Proceed with coursework. If any changes become necessary in the Advisory Conference Report, file in the Graduate College an amended report which has been approved by all members of the Advisory Conference Committee and the graduate liaison.
- Complete tools of research as specified in Advisory Conference Report.
- When all required coursework and research tools have been completed, file Application for General Examination in the Graduate College two weeks prior to the General Examination. Approval by the Graduate Dean is required if membership of the Doctoral Committee conducting the General Examination is different from that assigned at the Advisory Conference.
- After the General Examination is authorized by the Graduate Dean, arrange with the Doctoral Committee for time and place of examination. General examinations should be completed during the semester in which approval was given. Within 72 hours after the General Examination is completed, a report signed by the entire committee must be submitted to the Graduate Dean.
- Following initial enrollment in “Research for Doctor’s Dissertation” (6980), maintain continuous enrollment in a minimum of two credit hours each semester until all degree requirements are completed. (See “Special Continuous Enrollment Requirement.”)
- File the Application for Graduation with the Office of Academic Records. Pay the microfilming fee in the Bursar’s office. Submit the Degree Check card to the Graduate College. (Deadlines are Fall – November 1; Spring – March 1; Summer – July 1).
- Prepare reading copies of the dissertation (one for each Doctoral Committee member) and when approved by the committee chairperson, present one copy to the Graduate College with a completed Request for Authority form. Reading copy deadlines are published in each semester’s class schedule and are available in the Graduate College office.
- If approved, the reading copy will be returned with the Authority for the Final Examination. The Graduate Dean must approve any change in membership of the Doctoral Committee.
- Arrange with members of Doctoral Committee the time and place of Final Oral Examination. Only one attempt to defend is afforded to the candidate. If a report of unsatisfactory is received, the student must discontinue candidacy.
- Incorporate any corrections and comments into the final dissertation copy.
- Within 60 days after the successful defense of the dissertation, submit to the Graduate College three copies of your dissertation signed by all committee members.
- Deposit your dissertation copies and the signed UMI Agreement with the Library. The Library will date and sign your Dissertation Receipt.
- Return the signed Dissertation Receipt, Survey of Earned Doctorates, Graduate College Exit Survey, and Entry Form to the Graduate College.
- Congratulations!

One of 22 tornadoes that touched down in Oklahoma on October 4, 1998. This image captured by meteorology graduate student, Marc Weinberg using 8mm camera.
University of Oklahoma
Health Sciences Center

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General Information

An internationally prominent faculty, state-of-the-art facilities and new technology combine to make the University of Oklahoma Health Sciences Center a leader in education, research and patient care.

One of only four comprehensive academic health centers in the nation with seven professional schools, the OU Health Sciences Center serves more than 2,800 students on the Oklahoma City and Tulsa campuses.

The OU Health Sciences Center serves as the state’s training facility for physicians, biomedical scientists, nurses, dentists, pharmacists, and a wide range of allied health and public health professionals.

Located one mile south of the State Capitol, the OU Health Sciences Center is the cornerstone of the 275-acre Oklahoma Health Center, a complex of 19 public and private health care institutions. Students and residents receive clinical training at on-site institutions, including University Hospital, Children’s Hospital of Oklahoma, Presbyterian Hospital, and the Veterans Affairs Medical Center.

In addition, affiliate-training programs are maintained at hospitals and clinics throughout the state.

Application Procedures

Applications to undergraduate and graduate programs must be submitted to the Office of Admissions and Records with a nonrefundable application fee of $25.00. Applications will not be processed without the application fee.

UNDERGRADUATE PROGRAMS

Applicants must submit the completed University of Oklahoma Health Sciences Center application form, official transcripts from all colleges and universities attended and any other information required by the department or college. Space in most programs is limited, and applicants are selected on a competitive basis.

Applications for undergraduate programs must be received and completed by the following deadlines:

- Communication Sciences and Disorders—March 1
- Dental Hygiene—November 1
- Nursing—January 15
- Nutritional Sciences—March 1
- Radiologic Technology—March 1

Applications and information is available from the Office of Student Services, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190, (405) 271-2416.

GRADUATE PROGRAMS

Applications from U.S. citizens for graduate programs must be received and completed by the following deadlines:

Fall Semester—July 1

Exceptions: Graduate program in Biomedical Sciences, Microbiology and Immunology, Neuroscience, Pathology, Physiology—December 15; Biochemistry and Molecular Biology, Biological Psychology, Cell Biology, Pharmaceutical Sciences—January 31; Communication Sciences and Disorders—February 1; Genetic Counseling—March 1; Radiological Sciences—April 1; Nursing—June 1.

Spring Semester—December 1

Exceptions: Nursing—November 1; Radiological Sciences—October 1.

Summer Session—May 1

Exceptions: Nursing—April 1; Orthodontics—October 1; Periodontics—November 1.

Applications and information is available from Office of Student Affairs, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190, (405) 271-2416; http://student-affairs.ouhsc.edu.
PROFESSIONAL PROGRAMS (Au.D., D.D.S., M.D., Pharm.D., MOT, MPT)

Applicants to the College of Dentistry D.D.S. degree program should request an Application Request Card from the Office of Admissions, College of Dentistry, University of Oklahoma Health Sciences Center, PO. Box 26901, Oklahoma City, OK 73190. This request card is the proper way to apply to the American Association of Dental Schools Application Service. In addition to application through the American Association of Dental Schools Application Service (AADSAS), applicants must submit the completed Supplemental Application for Admission, University of Oklahoma Health Sciences Center to the College of Dentistry, Office of Admissions with a nonrefundable application fee of $50.00. Applications will not be processed without the application fee. Since the Committee on Admissions begins selection of students in late November of the year preceding enrollment, it is extremely important to apply early. The application deadline is December 1.

Applicants to the College of Medicine M.D. degree program apply through the American Medical College Application Service. The necessary application card to American Medical College Application Service may be obtained from preprofessional or premedical advisers in the applicant’s current school or by writing to the Director of Admissions, College of Medicine, University of Oklahoma Health Sciences Center, PO. Box 26901, Oklahoma City, OK 73190. Applications are received from June 15 through October 15 of the year prior to which admission is sought. Late or incomplete applications will not be considered. The deadline for a completed supplemental form plus the AMCAS application to the college is November 1.

Application to the College of Pharmacy Doctor of Pharmacy Program must be filed on the forms provided by the OU Health Sciences Center Office of Admissions and Records. Complete applications must be received by November 1; late or incomplete applications will not be considered. Individuals are eligible to apply for admission to the Doctor of Pharmacy Program if they have: (1) earned an ACPE-accredited baccalaureate degree in pharmacy or (2) completed the fall semester of the P-4 year of the B.S. in Pharmacy Program at the University of Oklahoma, or equivalent coursework in another ACPE-accredited program.

Application to the Au.D., Master of Occupational Therapy or the Master of Physical Therapy program in the College of Allied Health must be post marked by February 1. Application forms are available online at www.ah.ouhsc.edu/main.

College of Allied Health

Dr. Carole A. Sullivan, Dean
801 N.E. 13th St.
Oklahoma City, OK 73104-5072
Phone: (405) 271-2288
FAX: (405) 271-1190
Internet: www.ah.ouhsc.edu/main
e-mail: alliedhealth-info@ouhsc.edu

Educational Programs

Coursework at the baccalaureate, professional and the graduate level, covering a wide variety of specialties in health care, is offered in the College of Allied Health. The five academic departments of the college are: Allied Health Sciences, Communication Sciences and Disorders, Nutritional Sciences, Radiologic Technology, and Rehabilitation Sciences.

Graduate work is available in the departments of Allied Health Sciences, Communication Sciences and Disorders, Nutritional Sciences and Rehabilitation Sciences. The department of Nutritional Sciences offers a dietetic internship program.

Work leading to the Bachelor of Science degree is offered in seven programs by three departments in the college: Communication Sciences and Disorders, Nutritional Sciences, and Radiologic Technology (Nuclear Medicine; Radiation Sciences; Radiation Therapy; Radiography; Sonography).

The Department of Rehabilitation Sciences offers a professional master’s degree program.

The College offers two Web-based degree programs, the Bachelor of Science in Radiation Sciences and Master of Science in Rehabilitation Sciences.

Admission

Application to the programs in the College of Allied Health are found at http://www.ah.ouhsc.edu/main/Application/Checklist.pdf.

Specific questions regarding the College of Allied Health programs can be directed to:
- Office of Academic and Student Services
- College of Allied Health
- University of Oklahoma Health Sciences Center
- P. O. Box 26901
- Oklahoma City, OK 73190
- Phone: (405) 271-6588
- FAX: (405) 271-3120
e-mail: alliedhealth-info@ouhsc.edu

Even though a student is eligible for entrance into the College, the student also must be accepted by a program.

Each program within the college considers applicants based upon the following objectives and limitations:
1. Each professional program is limited to a class size or student capacity based upon professional accreditation standards. As a result of this limitation, not all qualified individuals may be admitted to a program.
2. Each professional program assures each applicant will be fairly and objectively evaluated on academic performance, academic history and compliance with published admission requirements. Evaluation criteria extend to the individual’s demonstrated capacity for competent, empathic professional health care service delivery. Effective communication skills and personal interaction abilities are essential elements of clinical practice in each profession; consequently, each individual may be evaluated based on clinical standards and expectations.
3. Each professional program will maintain a rank ordered list of qualified alternates, not to exceed class size. Any individual appearing on the alternate list in one year will not be guaranteed admission in the next year. Applicant pools vary in competitiveness each year; consequently, each applicant is guaranteed equal consideration each year.
4. Each professional program will reasonably accommodate otherwise qualified individuals with a disability, unless such accommodation would pose an undue hardship or would result in a fundamental alteration in the nature of the program or undue administrative burden.

ADMISSION REQUIREMENTS

The University of Oklahoma Health Sciences Center uses the 4.0 scale to calculate grade point averages, with an A equal to 4.0.

The undergraduate programs in nutritional sciences and radiologic technology in the College of Allied Health require a minimum cumulative grade point average of 2.50 for admission. The undergraduate program in communication sciences and disorders requires a minimum cumulative grade point average of 2.75 for admission. The master’s degree programs in Occupational Therapy and Physical Therapy require a cumulative grade point average of 2.75. Other criteria for admission are determined by each department. Admission to a program in the College of Allied Health is competitive. The number of qualified applicants that apply every year exceeds the number of positions available.

All graduate departments in the College of Allied Health require that the applicant have a baccalaureate degree from an accredited university or college and a 3.0 grade point average in the last 60 hours of coursework applied to the baccalaureate degree. The final decision for admission to any graduate program, either as a degree or non-degree student is determined by the dean of the Graduate College.
Enrollment
Students are not permitted to enroll in College of Allied Health courses unless they have been admitted to a program or have been admitted to one of the categories as defined in the admissions requirement section. Students admitted to other degree programs within the university may be permitted to enroll in a College of Allied Health course, provided they have the necessary prerequisites for the course and have received special permission from the course instructor, the department and the Office of Academic and Student Services.

Prior to enrollment in the College of Allied Health, all students must obtain current certification in cardiopulmonary resuscitation (CPR), provide records of pertinent immunizations, and evidence of health insurance.

Costs
Students may expect additional costs that include but are not limited to a personal computer, textbooks, lab fees, insurance, and supplies. Students are required to assume financial responsibilities for room, board, and transportation expenses associated with clinical practicum requirements. For financial aid information contact the Financial Aid Department by e-mail at financial-aid@ouhsc.edu or call (405) 271-2118.

College of Allied Health Academic Standards

To maintain “good standing” and to be eligible for graduation in the College of Allied Health, the student must meet the following minimum standards of performance:
- A minimum grade of C or S in each program course.
- A grade point average of 2.50 or higher each semester.
- A cumulative grade point average of 2.50 or higher while enrolled in an academic program in the College.
- A grade point average of 2.50 or higher in all required courses in the academic program in which the student is enrolled.
- Professional performance and behavior.
- Satisfactory progress, as determined by the Academic Progress Committee and the Dean.

The College of Allied Health standards for professional master’s degree programs are as published above. For doctoral professional degree programs, the standards are as published above except that the grade point requirements are a 3.0 with no grade below B or S.

The College of Allied Health graduate academic standards are consistent with the academic standards of the University of Oklahoma Graduate College, which are printed in the Graduate College Bulletins and are available online at http://w3.ouhsc.edu/graduate/bulletinindex.htm.

Students receive and may solicit counsel from their departmental faculty or program director throughout the semester on their academic progress. The judgment of satisfactory academic progress of each student is vested in the faculty of the department.

To monitor academic progress, each department has an Academic Progress Committee (APC) consisting of teaching faculty of the department. The APC will meet at least once, at the end of each semester, to review the progress of each student. The APC may meet at any time during the semester.

The APC analyzes each student’s overall academic, clinical, and professional performance, makes recommendations in writing to the dean regarding each student’s academic progress. The APC may recommend that the dean commend, promote, retain, place on or continue probation, suspend, dismiss or expel a student.

Recommendations may also include, but are not limited to:
1. Individualizing course sequence and selection.
2. Modifying standard timing and sequence of coursework.
3. Repeating courses.
4. Adding courses to strengthen basic competencies.

5. Assigning specialized academic and/or clinical projects.
6. Recommendation for probation, suspension, dismissal or expulsion.

For gifted students making exceptional progress, the APC may recommend modifications to allow for higher level work and advanced studies.

Students will receive ongoing advice and counsel from their departmental faculty or program director throughout the semester in regards to academic and professional progress. In those situations where semester grades result in a change from required progress, students are informed of the recommendations of the Academic Progress Committee by letter from the dean.

Academic Sanctions

The academic sanctions noted below may be recommended to the Dean by a student’s academic progress committee. They are not hierarchical, in that any one may be the first and only recommendation of the committee. A detailed description of each sanction follows.

Academic Probation—The dean places a student on academic probation when the student fails to maintain standards for good standing. Probation is noted on the student’s transcript, in the Office of Academic and Student Services, and in the department records.

1. If a student fails to meet the standards for good standing, the Department Academic Progress Committee (APC) may recommend academic probation.

2. If so, the APC states the specific deficiency(ies) leading to its recommendation, the length of probation, and the conditions necessary to remove probation.

3. The dean will make the final decision regarding the sanction of probation and will notify the student in writing defining the reason(s) probation and the required conditions to remove the sanction.

4. Should a student on college academic probation not correct the conditions of probation in the subsequent semester (or summer session) the APC may recommend continued academic probation, academic suspension, or academic dismissal from the college, depending on the individual circumstances.

Academic Suspension—Suspension from a program, for a period of not less than one semester or summer session or more than two calendar years, can result from deficient performance in academic or clinical coursework or other elements of good standing. The duration of suspension varies depending on the specific circumstances. A student may be reinstated to the program after the duration and conditions for reinstatement have been fulfilled. Suspension is noted on the student’s transcript, in the Office of Academic and Student Services and in the department records.

1. Suspension is a sanction reserved for serious deficiencies requiring removal of the student from the program for a stated length of time.

2. Conditions leading to suspension may include, but are not limited to:
   a. Earning an F or U in any program course;
   b. Failure to achieve the required GPA in more than one sequential semester;
   c. Failure to correct the conditions of probation as required;
   d. Demonstrated lack of clinical or academic progress;
   e. Other serious deficiencies related to the elements of good standing, which in the judgment of the Academic Progress Committee (APC) necessitates suspension from program activities.

3. The APC will define the conditions of suspension and will forward its recommendations to the dean stating the deficiency(ies) leading to suspension, the duration of suspension, and the conditions necessary to end suspension.

4. The dean will make the final decision regarding the sanction of suspension and will notify the student in writing defining the reasons for suspension and the required conditions for reinstatement.

5. A student may be suspended from the College of Allied Health for a minimum of one academic semester or summer session, a maximum time of two years.

6. A student who is reinstated after suspension, must maintain all undergraduate standards for good standing.

7. The dean will not reinstate a student who has been suspended twice.

Academic Dismissal—Dismissal is termination of student status because of severely deficient performance in academic and clinical coursework, or in
other elements of good standing. A student dismissed from a program may apply for readmission or admission to another program by following admissions procedures for new students. Dismissal is noted on the student’s transcript, in the Office of Academic and Student Services, and in the department records.

1. Dismissal is a sanction resulting in termination of student status in the college.

2. Conditions causing dismissal may include, but are not limited to:
   a. Severely deficient performance in academic and clinical coursework;
   b. Inability to master the demands of a professional curriculum;
   c. Lack of professional behavior and performance;
   d. Inability to correct deficiencies within a reasonable time;
   e. Other serious deficiency(ies), which in the judgement of the APC results in the recommendation of dismissal from the program.

3. The APC will define the circumstances of dismissal and will forward recommendations to the dean stating the rationale for its recommendation for dismissal.

4. The dean will make the final decision regarding the sanction of dismissal and will notify the student in writing.

5. A student dismissed from the College of Allied Health may apply for readmission, or admission to another program, following regular procedure for new students. However, a student’s performance in the College is a matter of record, and will be considered during any future admission process.

**Expulsion**—Expulsion is permanent termination of student status. Expulsion is a University sanction that results from academic misconduct. Expulsion is noted on the student’s transcript, in the Office of Academic and Student Services, and in the Department records.

1. This sanction results from disciplinary action for academic misconduct, and is a University sanction. Academic misconduct which might result in expulsion may be, but is not limited to:
   a. Submission of forged documents, such as transcripts, or the withholding of the failure to disclose previous academic coursework.
   b. Taking another student’s examination or arranging for someone else to take one’s examination.
   c. Submission of commercial or plagiarized papers.
   d. Using examination, grade books, grade sheets or other instructor possessions which have been stolen, copied, or otherwise unauthorized.
   e. Use of intimidation in an attempt to influence the academic process.
   f. Submission of falsified documents relating to the application process, academic or clinical aspects of the student’s program.

2. The Academic Progress Committee (APC) of the student’s department will define the conditions of expulsion and will forward the recommendations to the dean and the Office of Academic and Student Services.

3. The dean will take action as prescribed in the University Academic Misconduct Code.

**Examinations**

It is recommended that a student be allowed to review a graded paper or examination, and have a graded project returned, within a reasonable time. A two-week limit for reporting grades on assignments is considered acceptable.

Every course will have a final examination unless otherwise announced by the instructor. When a final examination is given, no member of the faculty is authorized to depart from the published examination schedule.

Special early examinations given to individual students or groups of students as substitutes for final examinations are prohibited. When a final examination is given, the student must take the examination. A student will not be expected to take more than two examinations in one day.

**Academic Appeals Board**

Responsibility for academic evaluation rests with the faculty. If a student feels wrongfully and unfairly evaluated by an instructor, and is unable to resolve the matter in conference with the instructor and then the departmental chair, an appeal may be made to the Appeals Board of the College through the Office of Academic and Student Services, CHB Room 165. Any thesis and dissertation appeals shall be heard by the Graduate College Appeals Board.

Appeal of a grade for a course in the College of Allied Health must be initiated within six weeks from notification of the final grade in question. An appeal is initiated by contacting the Office of Academic and Student Services and following the guidelines outlined in the CAH Academic Appeals Board Operational Procedures.

The CAH Academic Appeals Board consists of an equal number of faculty and students and operates under established Academic Appeal Procedural Guidelines. These procedures are published in the College of Allied Health Student Handbook and are also available to any student through the CAH Office of Academic and Student Services. Meetings of the board are closed to the public and all proceedings are confidential.

**Graduation**

Degrees are formally conferred at spring commencement exercises. However, degrees are awarded in absentia and diplomas are mailed to graduates at the end of the spring, fall and summer terms. The degree and date of the diploma are entered on the student’s permanent academic record. When a student completes all requirements for a degree other than at the close of a semester or summer session, the Office of Admissions and Records, upon request, will issue a certified statement that the student is eligible for the degree as of the date when the requirements for the degree were completed.

**Official Transcripts**

Official transcripts are released by the Office of Admissions and Records upon the written request of the student. To request a transcript, contact the Office of Admissions and Records, Basic Sciences Education Building, Room 200, 941 Stanton L. Young Blvd., Oklahoma City, OK, 73104.

**Undergraduate and Professional Graduate Programs**

**Audiology**

Audiology is the discipline involved in the prevention, identification, and evaluation of hearing and hearing disorders, the selection and evaluation of hearing aids and the habilitation/rehabilitation of individuals with hearing impairments. Audiology services are provided to individuals across the entire age span from birth to adulthood; to individuals from diverse language, ethnic, cultural, and socioeconomic backgrounds; and to individuals who have multiple disabilities. Audiologists hold either a master’s degree or doctoral degree, the Certificate of Clinical Competence (CCC) of the American Speech-Language Hearing Association (ASHA), and where applicable, state licensure. The program offers a Doctor of Audiology (Au.D.) degree.

**BASIC ADMISSION REQUIREMENTS**

To be considered for admission, an applicant must:

1. Complete a bachelor’s degree or higher from an accredited college or university;
2. Have a minimum 3.0 cumulative GPA on the last 60 hours of undergraduate coursework;
3. Take the Graduate Record Examination (GRE);
4. Complete an on-site interview;

For additional information:
Department of Communication Sciences and Disorders
College of Allied Health
Communication Sciences and Disorders

Communication Sciences and Disorders professionals specialize in the evaluation, remediation and research of speech, language, fluency, voice and hearing impairments in children and adults of all ages. At the undergraduate level the discipline emphasizes course work in the normal communication process and the development of an understanding of communication disorders. Advanced levels of education are directed toward learning communication assessment and treatment techniques for a wide variety of disorders, including aphasia, childhood speech disorders, voice loss following laryngectomy, cerebral palsy, cleft palate, language-learning disabilities and hearing loss. Additionally, opportunities exist for student-faculty research at both the undergraduate level and the graduate level.

This is a four-year program in which the first and second years (60 semester hours) may be completed at the University of Oklahoma, Norman campus, or any accredited college or university. The third and fourth years are completed at the Health Sciences Center campus.

BASIC ADMISSION REQUIREMENTS

Admission to the program requires completion of a minimum of 60 semester hours from an accredited college and/or university and submission of all application materials. The Department Admissions Committee will review application materials and may require additional information from each applicant, such as a personal interview and/or testing scores. Applicants are considered for each fall semester. To be considered for admission to the communication sciences and disorders program an applicant must:
1. Have successfully completed, or be in the process of completing a minimum of sixty (60) semester hours of prerequisite coursework from an accredited college or university.
2. Be in good standing with the college or university last or currently attending.
3. Have a minimum grade point average of 2.75 on a 4.0 scale on all college work attempted. The College of Allied Health has an Academic Forgiveness in Admission policy; for information contact the Office of Academic and Student Services, (405) 271-6588.
4. Submit a completed application by March 1. The application and other application requirements is found at http://www.ah.ouhsc.edu/main/Application/Checklist.pdf.

Prerequisite Course Requirements

Course numbers and titles are those of the University of Oklahoma. The program director, department chairperson, and college dean must approve any exceptions or substitutions.

Prerequisite courses are offered at several colleges or universities in the state. Check with the College of Allied Health web page (http://www.ah.ouhsc.edu/prereqs/) or your school advisor regarding equivalent courses not taken at the University of Oklahoma.

Sixty semester hours must be completed for entrance to the program. Summer school hours, including electives, will be accepted if completed prior to the fall semester of the year a student plans to enter the program.

Symbolic and Oral Communication

ENGL 1113, Principles of English Composition I
ENGL 1213, Principles of English Composition II
MATH 1523, Elementary Functions
UNIV 1000, Business Computing

Natural Sciences

PHYS 1114, General Physics
ZOO 1114, Introductory Zoology
ZOO 1121, Introductory Zoology Lab

Social Sciences

P SC 1113, American Federal Government

Nutritional Sciences

The Department of Nutritional Sciences offers a four-year Bachelor of Science degree in Clinical Dietetics. Students apply to the professional phase of the program (at the Health Sciences Center) after first completing freshman and sophomore years (or 60 hours) of general education, inclusive of the prerequisites described in this document. Upon completion of the Clinical Dietetics Coordinated program, the graduate will be prepared to function as an entry-level clinical dietitian.

ACADEMIC PROGRAM

The Department of Nutritional Sciences offers a coordinated program in clinical dietetics for undergraduate students interested in a career involving nutrition and health. Clinical dietetics is a profession dedicated to improving quality of life by helping people recover from illness and preventing health problems through medical nutrition therapy and nutrition counseling.

The coordinated program in clinical dietetics is an education program accredited by the American Dietetic Association that provides both the academic and practice experiences required for registration. Upon completion of the program, a verification statement is provided to the American Dietetic Association to indicate that the student has completed the necessary requirements of the program and is eligible to take the Registry Examination for Dietitians. This is the option offered by the Department of Nutritional Sciences at the University of Oklahoma Health Sciences Center at the baccalaureate level.

BASIC ADMISSION REQUIREMENTS

Admission to the program requires completion of prerequisite course work and submission of all application materials. To be considered for admission to the Clinical Dietetics Coordinated Program, an applicant must:
1. Have successfully completed, or be in the process of completing a minimum of 62 semester hours of prerequisite coursework from any accredited college or university prior to matriculation to the program.
2. Be in good standing with the college or university last or currently attending.
3. Have a minimum grade point average of 2.5 on a 4.0 scale of all college work and science courses attempted. Completed all departmental prerequisite courses with grades of C or better prior to projected admission date. The College of Allied Health has Academic Forgiveness in Admission policy; for information contact the Office of Academic and Student Services, (405) 271-6588. Early admission is available; contact the department at (405) 271-2113.

4. Submit a completed application by March 1. The application and other application requirements is found at http://www.ah.ouhsc.edu/main/Application/Checklist.pdf.

**Nutritional Sciences Prerequisites**

Course numbers and titles are those of the University of Oklahoma. The program director, department chairperson, and college dean must approve any exceptions or substitutions.

Prerequisite courses are offered at several colleges or universities in the state. Check with the College of Allied Health web page (http://www.ah.ouhsc.edu/prereqs/) or your school advisor regarding equivalent courses not taken at the University of Oklahoma.

Sixty-two semester hours must be completed for entrance to the program. Summer school hours, including electives, will be accepted if completed prior to the fall semester of the year a student plans to enter the program.

**Symbolic and Oral Communication**

ENGL 1113, Principles of English Composition
ENGL 1123, Principles of English Composition
MATH 1523, Elementary Functions (or college algebra, or acceptable substitution)
UNIV 1000, Business Computing
Foreign Language: two years in high school or two college-level courses in the same language

**Natural Sciences**

CHEM 1315, General Chemistry
CHEM 1415, General Chemistry (continued)
HSS 2823, Introductory Nutrition
MBIO 2815, Introduction to Microbiology with lab
ZOO 2124, Human Physiology

**Social Sciences**

P SC 1113, American Federal Government
PSY 1113, Elements of Psychology
SOC 1113, Introduction to Sociology, or
ANTH 1113, General Anthropology

**Humanities**

HIST 1483, U.S. History 1492-1865, or
HIST 1493, U.S. History 1865-Present
*Understanding Artistic Forms–3 hours
*Western Civilization and Culture–3 hours
*Non-Western Culture–3 hours

**Electives**

Make up the balance of hours needed to equal 60 hours

*General education courses required for students beginning their college education Fall 1990 or later. An upper division (3000-4000 level) general education course must be completed before enrollment in the professional program. Courses taken for humanities, western civilization or non-western civilization, or to satisfy other elective hours may (if 3000 or 4000 level) also qualify for the upper division general education course. For a listing of approved general education courses the University of Oklahoma refer to the current class schedule or contact an advisor at your respective institution.

† - waivered for applicants with an associate degree from an accredited Oklahoma college or university and for applicants with a Bachelor’s degree.

§ Not required for student beginning college prior to summer 1998. May substitute one year in high school (excluding keyboarding) or by passing an institution assessment test.

For additional information:
Department of Nutritional Sciences
College of Allied Health
Phone: (405) 271-2113
e-mail: alliedhealth-info@ouhsc.edu
Internet: www.ah.ouhsc.edu/main

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**Occupational Therapy**

Occupational therapy is a vital health-care profession that contributes to the ability of individuals to perform their life roles, such as parent, student, or worker, in the occupations of work, personal care, and leisure. Practitioners of occupational therapy advance the person’s well being by promoting adaptation and independence through meaningful activities of everyday living to enhance and restore health. By preventing, reducing, or overcoming physical, social, and emotional impairment in people, its practitioners help to restore and sustain the highest quality of productive life to persons of all ages. They may be recovering from illnesses or injuries, contending with developmental disabilities, or coping with changes resulting from the aging process. The unique feature that separates its knowledge from other professions is the study and management of the purposeful occupations and the meaningful activities in which humans engage. In short, occupational therapy provides skills for the job of living.

The Master of Occupational Therapy degree professional program consists of 80 semester hours of sequenced and integrated didactic and clinical courses. All didactic course work is offered on the University of Oklahoma Health Sciences Center (OUHSC) campus in Oklahoma City and the OUHSC campus in Tulsa. Clinical coursework is completed in sites throughout the country.

The course of study is intended for students to achieve competencies for general clinical practice in occupational therapy with an appreciation for research and evidence-based practice. Upon completion of degree requirements, the student is awarded a degree of Master of Occupational Therapy (M.O.T.)

**BASIC ADMISSION REQUIREMENTS**

The program admits one class each fall to the Oklahoma City and Tulsa campuses. Admission to the program requires completion of prerequisite course work and submission of all application materials. The Department Admissions Committee will review application materials and may request additional information such as an interview, and/or testing. To apply for the program, applicants must:

1. Have successfully completed, or be in the process of completing a minimum of ninety (90) semester hours of prerequisite coursework, from any accredited college or university, prior to admittance to the program.

2. Be in good standing with the college or university last or currently attending.

3. Have a minimum grade point average of 2.75 on a 4.0 scale for all college work and natural sciences courses attempted. Completed all departmental prerequisite courses with grades of C or better prior to projected admission date. Early admission is available; contact the department for information, (405) 271-2131. The College of Allied Health has an Academic Forgiveness in Admission policy; for information contact the Office of Academic and Student Services, (405) 271-6588.

4. Forty hours of observation in an occupational therapy setting and the Graduate Record Exam (GRE) score is required at time of application.

5. Submit a completed application by February 1. The application and other application requirements is found at http://www.ah.ouhsc.edu/main/Application/Checklist.pdf.

**Prerequisite Course Requirements**

Course numbers and titles are those of the University of Oklahoma. The program director, department chairperson, and college dean must approve any exceptions or substitutions.

Prerequisite courses are offered at several colleges or universities in the state. Check with the College of Allied Health web page (http://www.ah.ouhsc.edu/prereqs/) for your school advisor regarding equivalent courses not taken at the University of Oklahoma.

Ninety semester hours must be completed for entrance to the program. Summer school hours, including electives, will be accepted if completed prior to the fall semester of the year a student plans to enter the program.

**Symbolic and Oral Communication**

CL C 2412, Medical Vocabulary
English/Math (4 courses)
Natural Sciences
PHYS 2414, General Physics for Life Sciences
ZOO 1114, Introductory Zoology
ZOO 1121, Introductory Zoology Lab
ZOO 2124, Human Physiology (with laboratory)
ZOO 2255, Human Anatomy (with laboratory)
Science Electives (3 courses)

Social Sciences
Psychology Electives (3 courses), or
Psychology Electives (2 courses), and
Sociology Elective (1 course)

General Education — Recommended
HIST 1483, U.S. History, 1492-1865, or
HIST 1493, U.S. History, 1865-Present
PSC 1113, American Federal Government
Understanding Artistic Forms†(3 hours)*
Western Civilization & Culture†(3 hours)*
Non-Western Cultures (3 hours)*
Upper-Division General Education approved course (3 hours)
Foreign Language - High School (2 years) or College (2 courses) must be the same language.

Electives
Electives make up the balance of hours needed to equal 90 semester hours; courses in natural sciences, social sciences and humanities are preferred.

ACCREDITATION
The curriculum in occupational therapy is accredited by the Accreditation Council of Occupational Therapy Education (ACOTE).

LICENSURE
Graduates of the program are able to sit for the national certification examination for the occupational therapist, administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR).

For additional information:
Department of Rehabilitation Sciences
College of Allied Health
Phone: (405) 271-2131
e-mail: alliedhealth-info@ouhsc.edu
Internet: www.ah.ouhsc.edu/main

Physical Therapy

Physical therapy is a dynamic health profession dedicated to the promotion of optimal health, prevention of disability, and the restoration and maintenance of physical activities that contribute to a successful life.

Physical therapy services are provided in a variety of settings including homes, schools, one’s workplace, outpatient clinics, and hospitals.

Physical therapists provide direct patient service, consultation, education, and are often engaged in research. They also serve in administrative capacities including supervising and delegating responsibilities to members of the physical therapy service. They work in primary, secondary, and tertiary health care settings. Physical therapists enter practice as generalists and may later become board-certified specialists. Physical therapists work closely with members of a patient’s team. Physical therapists are also engaged in the development of new approaches of intervention that will more effectively meet existing and emerging health needs in society including health promotion and disability prevention programs.

Graduates of the program receive a Master of Physical Therapy (M.P.T.) degree and are eligible to sit for the national licensure examination upon meeting state licensure requirements.

BASIC ADMISSION REQUIREMENTS
The program admits one class each fall semester at the Oklahoma City and Tulsa campuses. Admission to the program requires completion of prerequisite course work and submission of all application materials. The Department Admissions Committee will review application materials and may request additional information such as an interview, and/or testing. To apply for the program, applicants must:
1. Have successfully completed, or be in the process of completing a minimum of 90 semester hours of prerequisite coursework, from any accredited college or university, prior to admittance to the program.
2. Be in good standing with the college or university last or currently attending.
3. Have a minimum grade point average of 2.75 on a 4.0 scale of all college work and natural science courses attempted. Completed all departmental prerequisite courses with grades of C or better prior to projected admission date. Early admission is available; contact the department for information, (405) 271-2131. The College of Allied Health has an Academic Forgiveness in Admission policy; for information contact the Office of Academic and Student Services, (405) 271-6588.
4. Forty hours of observation in a physical therapy setting and the Graduate Record Exam (GRE) score is required at the time of application.
5. Submit a completed application by February 1. The application and other application requirements is found at http://www.ah.ouhsc.edu/main/Application/Checklist.pdf.

Prerequisite Course Requirements
Course numbers and titles are those of the University of Oklahoma. The program director, department chairperson, and college dean must approve any exceptions or substitutions.

Prerequisite courses are offered at several colleges or universities in the state. Check with the College of Allied Health web page (http://www.ah.ouhsc.edu/prereqs/) or your school advisor regarding equivalent courses not taken at the University of Oklahoma.

Ninety semester hours must be completed for entrance to the program. Summer school hours, including electives, will be accepted if completed prior to the fall semester of the year a student plans to enter the program.

NOTE: Satisfactory completion of all prerequisite courses is required prior to beginning the program.

Symbolic and Oral Communication
CLC 2412, Medical Vocabulary
English/Math (4 courses)

Natural Sciences
CHEM 1315, General Chemistry (with laboratory)
PHYS 2414, General Physics for Life Sciences
PHYS 2424, General Physics for Life Sciences
ZOO 1114, Introductory Zoology
ZOO 1121, Introductory Zoology Lab
ZOO 2124, Human Physiology (with laboratory)
ZOO 2255, Human Anatomy (with laboratory)
Science Elective (1 course)

Social Sciences
Psychology and/or Sociology (3 courses)

General Education — Recommended
HIST 1483, U.S. History, 1492-1865, or
HIST 1493, U.S. History, 1865-Present
Understanding Artistic Forms (3 hours)
Western Civilization & Culture (3 hours)
Non-Western Cultures (3 hours)
Upper-Division General Education approved course (3 hours)
Foreign Language- High School (2 years) or College (2 courses) must be the same language.

Electives
Electives make up the balance of hours needed to equal 90 semester hours; courses in natural sciences, social sciences and humanities are preferred.

ACCREDITATION
The curriculum in physical therapy is accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE).
Radiation Therapy

Radiation Therapy is the profession in which diagnostic medical images are made using x-rays and other radiations. The radiographer may work independently or with a physician to create images that include computed tomography (CT), magnetic resonance (MR), mammography, cardiovascular interventional technology (CIT) and others. Radiographers must exercise initiative and judgement in obtaining the images necessary for adequate physician interpretation. As with the other radiation science professions, the patients' confidence must be obtained while translating a “high tech” process into a humane experience that provides an unparalleled view of life.

Sonography

Sonography is the profession that uses equipment that generates high frequency sound waves to produce images of the human body. Using imaging procedures and personal initiative, the sonographer gathers data for interpretation and evaluation by the physician. This profession includes abdominal sonography, neurosonography, echocardiography, obstetrical and pelvic sonography and vascular technology. In each of these areas the sonographer must be knowledgeable of expected pathology, applicable instrumentation and results. The OUHSC sonography program is accredited in both general and cardiac sonography and provides opportunity for each student to obtain these sub-specialty areas. Clinical facility resources do not permit assignment of all students to all sub-specialty areas for advanced competencies. Assignment for advanced competencies will be made on the basis of available facilities and each student’s performance in basic coursework.

BASIC ADMISSION REQUIREMENTS

Admission to the program requires completion of prerequisite course work and submission of all application materials. The Department Admissions Committee will review application materials and may request additional information such as an interview, and/or testing. To apply for the program, students must:

1. Have successfully completed, or be in the process of completing a minimum of 64 semester hours of prerequisite coursework, from any accredited college or university, prior to admittance to the program.
2. Be in good standing with the college or university last or currently attending.
3. Have minimum grade point average of 2.50 on a 4.0 scale for all college work attempted. Completed all departmental prerequisite courses with grades of C or better prior to projected admission date. The College of Allied Health has an Academic Forgiveness in Admission policy. For information, contact the Office of Academic and Student Services, (405) 271-6588.
4. Submit a completed application by March 1. The application and other application requirements is found at http://www.ah.ouhsc.edu/main/Application/Checklist.pdf.

Prerequisites for Radiologic Technology Programs

Course numbers and titles are those of the University of Oklahoma. The program director, department chairperson, and college dean may approve any exceptions or substitutions.

Prerequisite courses are offered at several colleges and universities in the state. Check with the prerequisite finder on the College of Allied Health web page (http://www.ah.ouhsc.edu/prereq/) or your school advisor regarding equivalent courses not taken at the University of Oklahoma.

Sixty-four semester hours must be completed for entrance to the program. Summer school hours, including electives, will be accepted if completed prior to the fall semester of the year a student plans to enter the program.

NOTE: Satisfactory completion of all prerequisite courses is required prior to beginning the program.

Symbolic and Oral Communication

CLC 2412, Medical Vocabulary
ENGL 1113, Principles of English Composition
ENGL 1213, Principles of English Composition
UNIV 1000, Intro. to Computers (offered through Continuing Edu.)

Natural Sciences

CHEM 1315, General Chemistry
MATH 1503, Intro. to Elementary Functions
PHYS 2414, General Physics for Life Sciences

LICENSURE

Physical therapists are eligible to practice once they receive state licensure. One is eligible to sit for the state licensure examination upon graduation from a physical therapy curriculum approved by the Commission on Accreditation in Physical Therapy Education (CAPTE).

For additional information:
Department of Rehabilitation Sciences
College of Allied Health
Phone: (405) 271-2131
E-mail: alliedhealth-info@ouhsc.edu
Internet: www.ah.ouhsc.edu/main

Radiologic Technology

The Department of Radiologic Technology offers a four-year baccalaureate degree in Radiologic Technology with programs in the areas of Radiography, Nuclear Medicine, Radiation Therapy and Sonography. Students apply to the professional phase of the program, which is offered at the University of Oklahoma Health Sciences Center in Oklahoma City, after completing 64 hours of general education, inclusive of the prerequisite courses identified below.

Each of the four professional programs, which begin in the fall of every year, consist of 68 semester hours of sequenced and integrated didactic and clinical courses. Students complete clinical assignments in selected hospital and clinic facilities, located throughout the Oklahoma City metropolitan area. Program faculty determine student assignments to clinical rotation sites based upon each student’s abilities and clinical education needs.

The four-year program culminates in the baccalaureate degree in radiologic technology (B.S.R.T.) in the specific discipline of study. Upon successful completion of the chosen educational program, the student is eligible to apply to the appropriate credentialing agency to sit for the certification examination in their respective profession.

In 1970 the department established a baccalaureate degree program in radiography. Baccalaureate programs in nuclear medicine and radiation therapy were instituted in 1975. In 1978, the fourth program in sonography was approved. The offering of baccalaureate degrees in all four disciplines within one academic department is unique in the country.

None of the four professions are prerequisite to one another or subordinate to any other. Each degree program can be entered directly after completion of prerequisite courses and selection by the Admissions Committee, through a competitive application process.

Nuclear Medicine

Nuclear Medicine is the profession that utilizes radiopharmaceuticals, scintillation cameras and computers to image and quantify various physiologic processes throughout the body. The nuclear medicine technologist administers radiopharmaceuticals to patients, positions them for treatment, performs mathematical calculations of radiation dosage and operating a variety of equipment that produces ionizing radiation. Therapists may also specialize in the area of treatment positioning them for treatment, performing mathematical calculations of diseased tissues in strictly controlled circumstances to cure or palliate the disease. The radiation therapist is in daily contact with the cancer patient, positioning them for treatment, performing mathematical calculations of radiation dosage and operating a variety of equipment that produces ionizing radiation. Therapists may also specialize in the area of treatment positioning them for treatment, performing mathematical calculations of diseased tissues in strictly controlled circumstances to cure or palliate the disease. The radiation therapist is in daily contact with the cancer patient, positioning them for treatment, performing mathematical calculations of radiation dosage and operating a variety of equipment that produces ionizing radiation. Therapists may also specialize in the area of treatment positioning them for treatment, performing mathematical calculations of diseased tissues in strictly controlled circumstances to cure or palliate the disease.
ALLIED HEALTH SCIENCES

Degrees offered: Master of Science, Doctor of Philosophy

The Department of Allied Health Sciences offers a Master of Science program with a specialization in medical dosimetry designed to provide advance education, training, and research to students desiring mastery in the area of medical dosimetry.

The objective of the Doctor of Philosophy degree program in Allied Health Sciences is to develop scholars who will provide leadership in the health care disciplines represented in the College of Allied Health. Graduates of this program will be prepared to assume roles in research, education, public policy, and administration of health care services. The interdisciplinary aspects of the program will promote expansion of knowledge across disciplines and informed collaboration among disciplines, which are hallmarks to today’s research, education, and health care environments.

COMMUNICATION SCIENCES AND DISORDERS

Degrees offered: Master of Science, Doctor of Philosophy

Areas of Concentration: Ongoing psycho-auditory, electrophysiological, psychophysiological, and physiological research in audiology and speech-language pathology places emphasis on both clinical and basic science areas. Up-to-date and comprehensive instrumentation is available for air pressure and flow measurements, event-related potentials, neuroimaging, physiological analysis of phonation and resonance, language acquisition and use, stimulus programming, signal conditioning and calibration, electroacoustic measure and analysis, data acquisition, recording, retrieval, and readout. Active faculty research programs span a variety of sub-disciplines: voice and its disorders, articulation and phonological disorders, developmental language and its disorders, normal neurolinguistic processing, acquired neurolinguistic disorders in children and adults, pediatric audiology, hearing aids, psychoacoustics, and neurophysiology.

NUTRITIONAL SCIENCES

Degrees offered: Master of Science

Areas of Concentration: Protein-energy malnutrition, nutrition and growth, obesity, nutrition in women’s health, nutrition and the physically disabled; interaction of carbohydrate, minerals and sex hormones in bone metabolism and nephrocalcinosis; nutrient intake and immune function in AIDS; nutrition and cancer, computer software and dietary assessment; nutrition and cardiovascular disease; dietetic education, sports nutrition and food science.

REHABILITATION SCIENCES

Degrees offered: Master of Science

Areas of Concentration: The post-professional Master of Science degree program in Rehabilitation Sciences is designed for physical therapists, and occupational therapists. The program is designed to permit students to build upon their professional disciplines and to follow individualized plans of study according to their future goals and past experiences. The program provides opportunities for students to develop as clinical specialists, clinical researchers, and/or faculty members. With an interdisciplinary approach to the core and cognate areas of the curriculum, the program allows students to supplement advanced information offered in the chosen areas of specialization with knowledge gained in graduate courses taught by faculty throughout the university. The program offers specialization in orthopedics, pediatrics, and sports medicine.

A Web-based option is available for the pediatric specialization.

ZOO 1114, Introductory Zoology
ZOO 1121, Introductory Zoology Lab
ZOO 2124, Human Physiology

Social Sciences
P SC 1113, American Federal Government†
PSY 1113, Elements of Psychology
SOC 1113, Introduction to Sociology

Humanities
HIST 1483, US History 1492-1865, or
HIST 1493 US History 1865-Present†

Elections
Electives make up the balance of hours needed to equal 64 semester hours; natural sciences, social sciences and humanities courses are preferred.

† - waived for applicants with an associate degree from an accredited Oklahoma college or university and for applicants with a bachelor's degree.

Courses taken on the pass/fail system will be accepted as elective hours. If any prerequisites are taken on the P/F system, the applicant must request a letter grade from the course instructor.

RT/ASSOCIATE DEGREE ARTICULATION OPTION

This option is designed for applicants with an associate degree from a nationally accredited Junior/Community College program in radiologic technology in Oklahoma. In addition to the associate degree, applicants should be certified (ARRT and/or NMTCB) in the discipline in which the AS degree was earned. Applicants will be considered on the basis of the following minimum requirements and may apply to any of the departmental programs.

CL C 2412, Medical Vocabulary
ENGL 1113, Principles of English Composition (3 hours)
ENGL 1213, Principles of English Composition (3 hours)
MATH 1503, Intro. to Elementary Functions (3 hours)
UNIV 1000, Intro. to Computers (offered through Continuing Educ.)
Humansities Courses (6 hours)
Upper-Level (3000 or 4000) General Education Course (3 hours)
Radiologic Technology courses (19 hours)
Electives to equal 64 hours

Applicants in this category use the procedure outlined herein for all other applicants. A minimum grade of C or higher in all professional and science courses related to the AS degree and a letter of recommendation from their former program director is required. In light of the preferred list of prerequisites all courses listed above must be completed prior to enrollment. Those entering under this option with an associate degree from a state other than Oklahoma may also be required to obtain certain other courses. All entering the Nuclear Medicine program who lack basic chemistry will be required to complete a minimum of four hours of general chemistry prior to enrollment.

WEB-BASED PROGRAM

The department also offers a non-clinical post-professional degree completion program for clinicians holding a professional credential in nuclear medicine, radiography, radiation therapy or sonography. The degree offered is a web-based Bachelor of Science in Radiation Sciences.

For additional information:
Department of Radiologic Technology
College of Allied Health
Phone: (405) 271-6477
e-mail: alliedhealth-info@ouhsc.edu
Internet: www.ah.ouhsc.edu/main

Graduate Programs

The University of Oklahoma Health Sciences Center
Bachelor of Science in Dental Hygiene

The Dental Hygiene Program is designed to prepare oral health professionals (dental hygienists) to become members of the oral health team responsible for providing preventive, therapeutic and educational services to patients and the community. This preparation process requires providing the skills necessary to become licensed by passing both written and clinical examinations administered by a governing body. Dentists and dental hygienists are the only licensed members of the oral health team.

The dental hygienist is a licensed member of the oral health care team responsible for providing preventive measures in the treatment of dental and oral disease. The oral health services include oral examination and charting, removal of hard and soft deposits from teeth, application of fluoride therapy and sealants, and exposing and processing oral radiographs. The dental hygienist is also responsible for educating patients in techniques needed to prevent dental caries, periodontal disease and other oral conditions. These services are usually rendered in the private dental office, but dental hygienists can be found in numerous other settings: nursing homes and long-term care facilities, hospitals, corporate health facilities, school systems, research centers, state and federal agencies and public health clinics. Also, they can be employed as educators and/or researchers in dental hygiene and dental school programs where they are responsible for teaching courses and clinics, providing continuing education seminars, conducting clinical research or collecting and analyzing scientific data.

The University offers a four-year baccalaureate degree program which consists of two years (60 hrs) of prerequisite courses (in Liberal Arts and Basic Sciences) and two years of dental hygiene subjects. The prerequisite courses may be taken at the University of Oklahoma or at other accredited Universities or Colleges. A new class of 24 students begins each fall semester in the Dental Hygiene Program. Upon successful completion of the program, graduates receive a Bachelor of Science degree in Dental Hygiene and are eligible to take the examination for state licensure to practice as a registered dental hygienist (R.D.H.). The program is accredited by the North Central Association of Colleges and Secondary Schools, Commission on Institutions of Higher Education, and the Commission on Dental Accreditation of the American Dental Association.

ADMISSION

Admission to the Dental Hygiene Program is competitive. Selection is based on the applicant's post-secondary academic record, life experiences and the potential for success in a baccalaureate program of study in dental hygiene. Oklahoma residents are given preference, but well-qualified non-residents are also considered for admission. New students are admitted for the fall semester only. To be considered for admission, students must meet the following requirements.

1. Submit a completed University of Oklahoma Health Sciences Center application with application fee, a Dental Hygiene Supplemental Application Form with application fee, official transcripts from all colleges or universities attended or currently enrolled, two (2) letters of recommendation from individuals familiar with applicant's potential for success, such as college science instructor and recent employer. All application materials must be submitted by November 1 of the year before that in which admission is sought (example: November 1, 2001 deadline for fall 2002 admission).

2. Be in good standing with the college or university last attended.

3. Have successfully completed or will have completed prior to entry into the program the courses listed in following prerequisite section. Have a total minimum of 60 semester hours of coursework from any accredited college or university. Course numbers and titles are those of the University of Oklahoma. Any exceptions or substitutions must be approved by the program chair and/or college dean. It is the responsibility of the student to submit official transcripts for courses taken after the application deadline.

4. Have a minimum grade point average of 2.5 on a 4.0 scale with a grade of C or better on all specifically required courses.

5. If English is the student's second language, a national standardized TOEFL examination is required. A minimum score of 550 is required.

6. At the discretion of the Admissions Committee and based upon application credentials, applicants who are completing prerequisites and have an application on file may be invited for a personal interview with at least two members of the Dental Hygiene Selection Committee. The personal interview does not, however, indicate acceptance into the program. All expenses incurred in the application process are the responsibility of the applicant.

Applicants are urged to investigate dental hygiene as a career prior to application. A combination of the following could provide valuable insight.

1. Observing a dental hygienist during typical workdays.
2. Exploring advantages and disadvantages of the discipline with practicing dental hygienists.
3. Discussing responsibilities usually delegated to the dental hygienist with dental professionals.
4. Observing or working with other dental professionals.

PREREQUISITES

The following courses are required for the program and must be included within the 60 semester hours of study. The course names and numbers are those of the University of Oklahoma. The program director or college dean must approve any exception or substitutions or be those listed in the Official Course Substitution Guide of the University of Oklahoma. It may be necessary to complete courses that are prerequisite to coursework required by the dental hygiene program. For example, a course in zoology may be necessary before a student may enroll in the human physiology course.

CORE AREA 1: Symbolic & Oral Communication

ENGL 1113, Principles of English Composition I
ENGL 1213, Principles of English Composition II
Foreign Language*—High School, two years; or, College, two courses
COMM 1113, Principles of Communication, or
2613, Public Speaking
COMM 2513, Introduction to Statistics, or
PSY 2003, Understanding Statistics

CORE AREA 2: Natural Science

ANAT Human Anatomy
CHEM 1315, General Chemistry
HSS 2823, Introduction to Nutrition, or
N S 1823, Elementary Nutrition
MBIO 2815, Introduction to Microbiology
ZOO 2124, Human Physiology

CORE AREA 3: Social Science

PSC 1113, Government of the United States
PSY 1113, Elements of Psychology
SOC 1113, Introduction to Sociology

CORE AREA 4: Humanities

HIST 1483, U.S. History 1492 to 1865, or
HIST 1493, U.S. History 1865 to Present
Understanding Artistic Forms (3 hours)*
Western Civilization & Culture (3 hours)*
Non-Western Culture (3 hours)*

*Prerequisites needed for only those who started college education in fall 1990 or after and who do not have a bachelor's degree. Students who are required to complete OU's General Education requirements must also take one 3-hour upper-division (3000- or 4000-level) General Education approved course outside the student's major. Students who have earned college credit prior to fall 1990 curriculum should consult with an adviser.
Electives
Make up the balance of hours needed to equal 60 hours

NOTE: The following course grades are used to compute a Foundational Course GPA that is used in the admissions process: ZOO 2124, Human Physiology; ANAT Human Anatomy w/lab (4-5 hours w/lab); MBIO 2815, Introduction to Microbiology w/lab; COMM 2513, Introduction to Statistics, or PSY 2003, Understanding Statistics; and NS 1823, Elementary Nutrition, or HSS 2823, Introduction to Nutrition. It is important that as much of the foundational coursework as possible be completed in the fall semester prior to desired entry in order to have the strongest possibility of selection.

Dental Hygiene Degree Completion Program: RDH-to-BSDH Track
The College of Dentistry offers flexible, individualized programs for Registered Dental Hygienists who wish to obtain a Bachelor of Science in dental hygiene degree. Full-time or part-time schedules are available and classes are scheduled as much as possible at hours convenient for the working student. Advanced standing of up to 30 hours of dental hygiene courses is available through various validation methods.

Each Completion Program applicant's credentials will be evaluated then together with the applicant a program will be designed specifically to meet the educational needs of the individual. Transcripts, course descriptions, and course syllabi may be used to determine transferability of previous dental hygiene coursework into the Completion Program. Previous coursework in dental hygiene taken at an associate's degree level must be equal to current requirements of the traditional University of Oklahoma Bachelor of Science in dental hygiene degree or additional coursework may be required. In addition, the Department of Dental Hygiene reserves the right to require remedial work of any student who does not perform at a satisfactory level of academic knowledge or patient care.

The Bachelor's of Dental Hygiene requires a minimum of 128 semester credit hours. All Completion Program students must take Core Courses with additional coursework as needed to meet the educational needs of the degree and of the individual. Applicants must also complete requirements of the University Regents and meet the 30-hour minimum residency requirement.

Focus may be on one or more of the areas identified by the American Dental Hygienists' Association as interrelated roles of the professional dental hygienist generalist.

1. Clinical — work in collaboration with dentists as co-therapists rendering preventive and therapeutic interventions, and evaluating treatments.
2. Management — as an office manager, the dental hygienist develops office protocol, monitors practice productivity and financial affairs, and coordinates human and material resources.
3. Acute and Extended Care Facilities — provide clinical and educational services for patients and residents, provide staff training, serve as client advocates and change agents to ensure that health care needs of diverse populations are met.
4. Public Health/School Districts — hygienists working in public health and school districts provide oral health assessments, referrals, and preventive services, and develop educational strategies to change the oral health behaviors of clients.
5. Education/Marketing — serve on the faculties of dental and dental hygiene programs in colleges and universities, in private business and industry, marketing dental technology and products, and in centers that focus on the needs of the physically challenged and elderly.
6. Research — contribute to advancing the knowledge base in dental health care by investigating both basic and applied research problems.

ADMISSION
Formal admission to the University of Oklahoma is an initial requirement for admission to RDH-to-BSDH Track. The application deadline is June 1 for fall enrollment. The following documents must be submitted.

1. Completed application forms.
   a. University of Oklahoma Health Sciences Center application
   b. RDH-BSDH Career Ladder Supplemental Application

   2. Official transcripts from all colleges attended.
   3. Photocopy of passing score on the National Dental Hygiene Board Examination.
   4. Official transcripts from all institutions of higher education attended.
   5. Two letters of recommendation: one from the director or clinical supervisor of the dental hygiene program attended and one from the applicant's current or most recent dental hygiene employer. In the event of extenuating circumstances, the chair of the Department may approve other sources of recommendations.
   6. Non-refundable application fees of $25 to OUHSC and $25 to the Department of Dental Hygiene.

COURSE REQUIREMENTS

CORE COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 3523, Research in Dental Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>DH 4331, Clinical Rotation I</td>
<td>1</td>
</tr>
<tr>
<td>DH 4338, Clinical Dental Hygiene III</td>
<td>8</td>
</tr>
<tr>
<td>DH 4341, Clinical Rotation II</td>
<td>1</td>
</tr>
<tr>
<td>DH 4349, Clinical Dental Hygiene IV</td>
<td>9</td>
</tr>
<tr>
<td>DH 4413, Correlation Seminar</td>
<td>3</td>
</tr>
<tr>
<td>DH 4421, Ethics and Jurisprudence</td>
<td>1</td>
</tr>
<tr>
<td>DH 4990, Special Studies in Dental Hygiene</td>
<td>4</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES* (up to 30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 3111, Pediatric Dentistry</td>
<td>1</td>
</tr>
<tr>
<td>DH 3121, Geriatric Dentistry</td>
<td>1</td>
</tr>
<tr>
<td>DH 4541, Community Health Practicum</td>
<td>1</td>
</tr>
<tr>
<td>DH 4960, Directed Reading in Dental Hygiene</td>
<td>1-4</td>
</tr>
</tbody>
</table>

*Additional approved elective courses may be taken for credit towards the degree. All students are responsible for maintaining current cardiopulmonary resuscitation (CPR) certification.

VALIDATION OF COMPETENCY
Registered Dental Hygienists who meet the following criteria may apply for up to 30 hours of advanced standing academic credit.

1. Graduated from an accredited associate degree or certificate of dental hygiene program.
2. Successfully completed the National Board Dental Hygiene Examination.
3. Successfully completed the Western Regional Board Examination or the equivalent.
4. Satisfactorily completed any necessary prerequisite coursework.
5. Completion of Dental Hygiene Department Request for Advanced Standing.
6. Successful completion of the Dental Hygiene Advanced Placement Examination with a minimum score of 75 on each of four components.

Registered Dental Hygienists may qualify for 30 hours of advanced standing credit by successfully completing the Dental Hygiene Advanced Placement Examination, which consists of four independent parts, with a minimum score of 75 required on each segment. Advanced standing academic credit will be recorded on the student's transcript following successful completion of at least 12 hours of academic credit in the Bachelor of Science in Dental Hygiene degree program with grades of C or better. The examination is divided into the following four segments.

Part 1: Clinical Dental Hygiene
Part 2: Periodontology
Part 3: Community Dental Health
Part 4: Preventive Dentistry

Contents of this publication are subject to revision without notice. The provisions of this publication do not constitute a contract, express or implied between any applicant, student, or faculty member of the Dental Hygiene Program.

FOR ADDITIONAL INFORMATION
To obtain OUHSC application materials contact:
Office of Recruitment
OUHSC, LIB Room 164
P.O. Box 26901
Oklahoma City, OK 73190-3040
Telephone: (405) 271-2416; FAX: (405) 271-8817
Doctor of Dental Surgery Program

GENERAL INFORMATION

The need for a dental school in Oklahoma was studied for many years, but it was not until 1965 that legislation was passed authorizing the planning of the College. A dean was appointed in 1969 and three years later the initial class was accepted and began studies. The first class of 24 students graduated in May 1976.

The College holds membership in the American Association of Dental Schools and is fully accredited by the Commission on Dental Accreditation. The College of Dentistry offers two degree programs. They are Bachelor of Science in Dental Hygiene and Doctor of Dental Surgery. In addition, the College provides for the continuing education of area dentists and dental auxiliaries through a variety of short courses, guest lectures, and seminars.

There are master's degree programs in orthodontics and periodontics in the Graduate College, that function as part of the College of Dentistry, and a hospital-based program in oral surgery. There is also a one-year Advanced Education in General Dentistry (AEGD) residency program.

PROGRAM FOR ACADEMIC EXCELLENCE

The College of Dentistry's four-year curriculum is designed to produce a competent general practitioner. The curriculum is built upon a minimum prerequisite of two years of earlier academic work.

The program is divided into semesters with additional summer clinical sessions. The objectives of the program are to produce graduates who will:

- be competent in the diagnosis and treatment of oral disease;
- practice preventive dentistry in relation to total health;
- assume positions of responsibility within the community;
- be sensitive to the needs, aspirations, and apprehensions of patients and others;
- be competent to manage a dental practice and dental auxiliary personnel; and
- have developed an initiative for continuing education and adaptation to progress within the profession.

The four-year dental curriculum is designed to provide those learning experiences which enable the student to acquire the essential knowledge and skills necessary for competent practice in the science and art of dentistry. To accomplish this, the academic program demands a large commitment of time throughout the curriculum. Direct participation in classes, laboratories, and clinics amounts to 35 or more hours per week, and related study and preparation time is extensive. In addition to the conventional two semesters of each academic year, students participate in four additional weeks of instruction during the first and second years and also provide patient care in a 10-week summer session following the third year. The total instructional period is 146 weeks; not including final examination weeks scheduled each semester. Flexibility is provided within many courses and the clinics to allow students the opportunity to learn in an individualized manner.

Instruction is provided in the basic biological sciences, behavioral sciences, and clinical dental sciences. Most of the biological science instruction is included in the first two years of the curriculum. Clinical sciences are taught throughout the entire curriculum. As the student progresses, increasing emphasis and time are devoted to supervised patient care. Behavioral sciences instruction, the management of dental practice and professional responsibility are incorporated throughout the curriculum. At graduation, the student is considered to be qualified to enter directly into the professional practice of dentistry.

The first year of the curriculum is concerned largely with the basic structure and function of the human body. Courses in human gross anatomy, microscopic anatomy with emphasis on the oral-facial structures, biochemistry, and physiology provide the student with the understanding of the biological sciences important to the dentist. Instruction in the clinical sciences gives the student the knowledge of form, structure, growth, and function of the dentition, the importance of and the mechanisms to prevent dental disease, and some of the procedures used to restore diseased oral tissues to a healthy condition. The first of a series of courses on individual behavior, communications, practice management, and the social responsibilities of the dentist are also offered in the first year. Students begin patient care in the first year by performing preventive dentistry and examination and diagnostic procedures.

The second year concentrates on the processes of disease and infection through conjoint courses in pathology, oral pathology, microbiology, and immunology. More advanced instruction in the clinical disciplines is provided and the student assumes an increasing responsibility for care of patients.

In the third year, more than half of the student's time is spent in the provision of dental care to patients. At the same time, he or she continues to receive instruction in basic sciences, particularly pharmacology, and in the clinical, behavioral, and social sciences. Students work in collaborative groups to provide high-quality care, practice effective management principles, and assist each other in professional growth and development.

The final year concentrates extensively on patient care, the correlation of the basic, behavioral, and clinical sciences, as well as the effective and efficient management of dental services. Some students are granted the opportunity to pursue elective study to concentrate on further development of knowledge and skills in selective clinical specialties, or to engage in research or graduate-level study in scientific disciplines. Each student will spend five weeks in special preceptorships or rotations in private offices and/or institutions providing dental services. Extensive emphasis is given to comprehensive patient care and the teamwork and leadership involved in the provision of dental health services.

The Doctor of Dental Surgery (D.D.S.) degree will be awarded to students who complete the prescribed curriculum at an acceptable level and demonstrate a high degree of professional ethics and behavior. The faculty will make the final determination of those candidates meeting requirements for graduation.

FACILITIES

Basic science courses are conducted in the Basic Sciences Education Building. Space is devoted exclusively to the dental programs in multidisciplinary laboratories which are especially conducive to small group instruction. Basic science instruction takes place in a modern lecture room equipped with color slides, closed circuit television, and other forms of audiovisual media. Preclinical technique instruction is conducted in a state of the art laboratory in the Dental Clinical Sciences Building which was designed to simulate working at chairsides, thus facilitating the student’s transition from the laboratory to the treatment of patients.

Dental clinical instruction takes place in the modern 112,000 square-foot Dental Clinical Sciences Building. This building is located immediately east of the Basic Sciences Education Building and is across the street from the Library-Learning Resources Center. The Dental Clinical Sciences Building provides the finest of facilities and equipment for clinical instruction. It includes 180 general practice operatories for student use and additional operatories for oral diagnosis, radiography, oral surgery, pedodontics, periodontics, graduate programs, and residencies. The Dental Clinical Sciences Building has three 88-seat lecture rooms and several multipurpose...
classrooms in addition to clinical laboratories and faculty offices. Student space is ample and includes locker rooms, a faculty-student commons with lunch facilities, several lounges, and an office and workroom for student organizations.

ADMISSION

The College of Dentistry is a state-supported institution giving priority consideration to residents of Oklahoma. However, non-resident applicants will be considered in accordance with their qualifications. Acceptance to the dental program is based on grade point averages (cumulative and science), DAT scores, letters of recommendation, and personal interview. Each applicant’s record is evaluated for quality and achievement.

Predental studies include a minimum of 60 semester hours’ credit at an accredited college or university. Applicants must have a cumulative grade point average of at least a C (A=4.0) and have earned a grade of at least a C in each of the required course areas. Since admission is competitive, applicants should significantly exceed the minimum academic performance requirements. The following courses are required within the predental coursework.

- English ................................................................. 6 semester hours
- Biological Sciences with laboratory....................... 8 semester hours
- Inorganic Chemistry with laboratory .................. 8 semester hours
- Organic Chemistry with laboratory .................... 8 semester hours
- Physics with laboratory ....................................... 8 semester hours
- General Psychology ............................................. 3 semester hours

Application for admission may be submitted while the student is working toward completion of one or more of the required courses, but the student will not be matriculated until each of these requirements has been met.

In addition to the required courses, it is recommended that applicants choose elective courses complementing the dental curriculum. The dental profession requires an understanding of areas such as psychology, sociology, and economics. The individual student should select additional courses on the basis of interest and personal enrichment.

All applicants are required to take the American Dental Association Dental Admission Test (DAT), with results forwarded to the College of Dentistry.

APPLICATION

All applicants must complete and submit the OUHSC application and fees. All non-resident applicants must also complete an application through the American Association of Dental Schools Application Service (AADSAS). Oklahoma residents have the option of completing the AADSAS application or applying directly to the College of Dentistry. All AADSAS applications must be postmarked no later than September 1. Oklahoma residents making direct application to the College of Dentistry have a December 1 deadline. Contact the College of Dentistry Office of Admissions at (405) 271-3530 for specific application procedures.

INTERVIEW

A personal interview is mandatory, but does not indicate acceptance into the program. Interviews will be granted on the basis of the applicant’s academic record and DAT scores. All expenses incurred in the application process will be the responsibility of the applicant.

Interviews begin October 1 of the year prior to the year of entry and end around mid-January of the year of entry. Candidates will be interviewed individually by two members of the Admissions Committee. The purpose of the interview is to determine the applicants’ knowledge of the dental profession, motivation, and maturity.

Therefore, it is recommended that applicants familiarize themselves with the profession by doing the following:
1. Discussing the profession with several general practice dentists.
2. Observing or assisting at least one general practice dentist during a “typical” day.
3. Visiting a dental school and discussing with faculty, students, and staff the profession and the commitment necessary to succeed as a dental student. These steps to reinforce your goal to become a dentist should be taken early in the decision process, but no later than the summer of the year prior to desired entry.

CLASS SIZE

Fifty-eight (58) applicants are selected each year to matriculate in the fall. Offers are made beginning December 1 of the year prior to the year of entry and the last week in February of the year of entry.

ENROLLMENT AND FEES/TUITION

The College of Dentistry Office of the Dean will enroll all dental students during the advance enrollment period. Enrollment is not complete until an enrollment form signed by the student and advisor is submitted to the HSC Office of Admissions and Records Enrollment Section. Dental students will be notified of their scheduled class registration by the College of Dentistry Dean’s Office.

To hold a position in the class, applicants accepted into the College of Dentistry must submit a $500 deposit by the date specified in the acceptance letter. This deposit is applied to the first semester tuition. This deposit is non-refundable.

A complete schedule of fees is available from the Office of Admissions, College of Dentistry.

SCHOLARSHIPS AND FINANCIAL AID

Adequate loan resources are available to meet the needs of all eligible dental students and are administered by the Financial Aids Office. In addition, some forms of financial aid are restricted to minority students.

An entering student should obtain the necessary application packet as early as possible from the Office of Financial Aids. Applications will be accepted throughout the year; however, applicants are cautioned that it takes several months to process applications and that applications submitted late may not be evaluated in time for eligible students to receive funds until after classes begin. Students must submit an application for financial aid each school year.

For further information, contact:
Office of Financial Aids
OUHSC, SU 301
P.O. Box 26901
Oklahoma City, OK 73190-3040
Telephone: (405) 271-2118

For further information, contact:
University of Oklahoma
College of Dentistry
Office of Admissions
OUHSC, DCSB 510
P.O. Box 26901
Oklahoma City, OK 73190-3040
Telephone: (405) 271-3530
Fax: (405) 271-3423
www.dentistry@ouhsc.edu

College of Medicine

M. Dewayne Andrews, M.D., Vice President for Health Affairs and Executive Dean

940 Stanton L. Young Blvd.
Oklahoma City, OK 73104-5042
Phone: (405) 271-2265
FAX: (405) 271-3032
Internet: http://www.medicine.ouhsc.edu/

Doctor of Medicine Program

GENERAL INFORMATION

Medical education is a complex mixture of graduate and professional education. Students are expected to master basic principles and theories as well as to obtain sufficient knowledge and experience to be well prepared
for residency training. The education must convey the continually expanding body of medical science and prepare students for a lifetime of competent and thoughtful interactions with their patients. Medicine and its practice is truly a commitment to life-long learning.

The University of Oklahoma College of Medicine is very creative in meeting the needs of both our students and the needs of our state’s population. At the turn of the 20th century the College of Medicine was established in Norman as a two year pre-clinical school. Ten years later in 1910 it was merged with the Epworth Medical College in Oklahoma City and became a four-year degree granting school. When medical schools all over the county were changing from being largely a proprietary business conducted for profit to a major concern of university endeavor OU and the leadership of our state were in the forefront in establishing solid medical education. This remains so today with the organization of pre-clinical and clinical training followed by post-graduate specialty training.

**FACILITIES AND FACULTY**

The University of Oklahoma College of Medicine fulfills its mission by assuring the fiscal and administrative resources, teaching and research facilities that are necessary to create an environment for the highest level of professional achievement. Our faculty, many of whom have reached positions of prominence in American medicine, are committed to providing a community for students to progressively acquire knowledge and skills to understand the nature of health and illness and to care for patients and their families. The University is justifiably proud of its students and faculty, for the strength of the institution lies in these individuals.

The uniqueness of the Oklahoma Health Center, the remarkable aggregate of health related institutions on the 200 acre facility in central Oklahoma City, includes the University of Oklahoma Health Sciences Center and 18 other private, state, and federal agencies. Medical students are not only afforded the opportunity to train on this campus but in a variety of health care delivery models across our community and state.

Additionally, the College of Medicine-Tulsa is the community—based, clinical campus founded in 1972 by act of the Oklahoma legislature. There are nearly 800 full-time faculty and more than 1,200 volunteer faculty serving the Oklahoma City and Tulsa campuses.

**CURRICULUM**

The curriculum of the College of Medicine is constantly reviewed and student input is of the utmost importance. Emphasis is placed on problem-solving in all four years; the first two basic science foundation years, and the last two clinical training years. Students begin to have contact with patients early in their first year and significantly increase the interaction in order to develop their skills by the end of their second year. A very innovative use of simulated patients in a standardized setting allows for student education, evaluation and testing beginning with freshman orientation. The curriculum also employs the use of computer-assisted instruction for teaching, testing and evaluating as well as independent study. The third year of training comprises clerkships in Family Medicine, Internal Medicine, Obstetrics, and Gynecology, Pediatrics, Psychiatry, Surgery, and a two-week rotation in Neurology. The remainder of the year is completed with selected coursework in other disciplines of medicine. The fourth year has a required ambulatory care course and rural preceptorship where each student must spend one month under the guidance of a physician in an Oklahoma community of less than 10,000 people. Additionally, students are required to complete rotations in Dermatology, Otorhinolaryngology, and Ophthalmology. The remainder of the year is made up of elective training chosen by each student.

**FINANCIAL AID**

Adequate loan resources are available to meet the needs of all eligible medical students. An entering student should obtain the necessary forms from:

Office of Financial Aid
University of Oklahoma Health Sciences Center
P.O. Box 26901
Oklahoma City, OK 73190
(405) 271-2118

Completed forms should be on file by March 1st of each academic year.

Scholarship and grant monies are often based on need and academic standing in the medical school. Just as loans, these funds are administered by the College and do not require additional applications.

**ADMISSION**

Inquiries concerning admissions should be addressed to the Office of Admissions, College of Medicine, Biomedical Sciences Building, Room 357, P.O. Box 26901, Oklahoma City, OK 73190.

All applicants must be U.S. citizens or hold a permanent visa and have a minimum of 90 semester hours of academic college work at an accredited college or university, and a minimum cumulative grade point average of 3.0. The following prerequisites must be completed with a minimum GPA of 2.0:

- General Chemistry—two semesters
- Organic Chemistry—two semesters
- Physics—two semesters
- Introductory Zoology with lab—one semester
- Choice of Genetics, Comparative Anatomy, Embryology, Histology or Cell Biology—one semester
- Sociology, Psychology, Foreign Language, Humanities, Philosophy, or Anthropology, any combination—three semesters
- English—three semesters

Although the baccalaureate degree is not required for admission, it is strongly recommended that the applicant have the degree prior to entering medical school. With thoughtful planning of coursework, it should be possible to complete all requirements for admission to medical school as well as those for the degree. Computer skills are required for medical school.

Each applicant must take the Medical College Admissions test (MCAT) and have a minimum average score of 7.0. The MCAT is given twice yearly (April and August) on regularly scheduled dates. Special examinations are not given, and applicants should file well in advance of the scheduled dates. Assistance in this regard is generally available from premedical advisors, however, final responsibility rests with the applicant. When necessary, application forms may be obtained directly from MCAT, P.O. Box 4056, Iowa City, IA 52243.

As the number of qualified applicants increases, the Admissions Board members are called upon to examine motivation, commitment, support systems, and the ability of each applicant to cope with the rigors of a professional school system. Academically competitive applicants have a GPA of 3.5 and an MCAT average of 9.0. All interviews are offered at the discretion of the Admissions Board.

**APPLICATION**

The college utilizes the American Medical College Application Service (AMCAS). The necessary application form may be obtained from premedical advisors or from the college. Applications are received from June through October 15 of the year prior to which admission is sought. Late or incomplete applications will not be considered. In addition to the AMCAS application, the college requires two letters of reference: one from the applicants premedical adviser/committee, and one from any other faculty member of his or her choosing, or three faculty letters if the premedical committee is not used (this option is strongly discouraged for currently enrolled OU students). Applications cannot be considered until all materials requested have been received. Complete deadline is November 1.

**DEGREE REQUIREMENTS**

Grading at the University of Oklahoma College of Medicine is a combination of objective examination and narrative evaluation both of academic and non-academic abilities of the student. All courses in the college must be passed with a grade of C or better, and all required coursework must be satisfied. Additionally, students are required to take Step 1 of the United States Medical Licensing Examination and pass this exam prior to graduation.

**LICENSURE**

Licensure to practice medicine in the United States is governed by state Boards of Licensure and Supervision. A degree of Doctor of Medicine is required, completion of one year of approved post graduate training and passing the United States Medical Licensing Examination three steps. Future information about licensure may be obtained directly from State Boards.
THE NATIVE AMERICAN CENTER OF EXCELLENCE CONSORTIUM FOR THE COLLEGES OF DENTISTRY AND MEDICINE

Established at the University of Oklahoma Health Sciences Center, the Center of Excellence is one of only three such programs in the country. Funding is provided by the United States Public Health Service and activities of the center are directed toward increasing interest in medical and dental careers among Native American high school and college students, and better preparing these students to pursue these careers, increasing the interests of Native Americans to pursue academic medicine and research, and finally to increase awareness among all medical students and practitioners in Oklahoma of the health needs of Native Americans.

More information may be obtained from:

NACOEC
University of Oklahoma Health Sciences Center
Colleges of Dentistry and Medicine
P.O. Box 26901 (LIB-164)
Oklahoma City, OK 73190
(405) 271-3601

Physician Associate Program

The College of Medicine offers a 30-month Physician Associate Program leading to a Master of Health Science degree. Pre-admission advising and counseling can be obtained by contacting the Physician’s Associate Program at the Health Sciences Center, (405) 271-2058.

ADMISSION

To be considered for admission to the Physician Associate Program an applicant must:

1. Have a minimum of 90 semester hours from an accredited college or university.
2. Have a minimum grade point average of 2.75 on a 4.00 scale.
3. Be in good standing with the college or university currently enrolled in or last attended.
4. Submit a completed Physician Associate supplement.
5. Complete three reference forms.
6. Submit a statement on “Why I Wish to Become A Physician Associate.”
7. Complete the General test component of the Grade Record Examination prior to the application deadline.
8. Applicants must have completed the following courses prior to the first day of classes.

Note that prerequisite courses need not be completed prior to the application deadline. Any exceptions or substitutions must be approved by the physician associate program.

- English Composition—one semester
- U.S. Government—one semester
- U.S. History—one semester
- Psychology—one semester
- Psychology elective—one semester
- Microbiology—one semester
- Pathogenic Microbiology, Virology, or Immunology—one semester
- Anatomy*—one semester
- Physiology*—one semester
- Zoology—one semester
- General Chemistry—two semesters
- General Physics—one semester
- College-level algebra—one semester

*Two semesters of combined anatomy/physiology fulfill separate course requirements.

It is highly recommended that all science courses have a laboratory component. Electives are preferred in the biological, physical, and behavioral sciences and humanities.

An application must be complete before it will be considered by the Admissions Committee. Applicants who meet these requirements and have completed the application and have a personal interview.

This does not indicate acceptance. All expenses incurred will be the responsibility of the applicant.

It is recommended that applicants have direct patient contact health care experience.

APPLICATION

Applications should be made directly to the University of Oklahoma Health Sciences Center, Office of Admissions and Records. As soon as the packet has been evaluated and made ready by this office, it will be forwarded to the admissions coordinator of the Physician Associate program for consideration.

Classes begin in early July each year. A maximum of 50 students are accepted to each class. All applications must be completed by October 1.

The application process includes a formal interview for those candidates selected for final consideration.

DEGREE REQUIREMENTS

Successful completion of the Physician Associate Program leads to the Master of Health Science degree as a physician associate. Any student who successfully completes all of the courses with a minimum grade of C in all Physician Associate courses and a minimum grade point average of at least 2.00 on a 4.00 scale may be recommended for graduation by the promotions committee.

The work in the College of Medicine is 30 months in duration and is divided into two phases: the basic science phase and the clinical clerkship phase.

The basic science phase is 17 months in length, and all work is done at the Health Sciences Center. Basic science training consists of required courses taught by several Colleges at the Health Sciences Center.

The clinical clerkship phase of the program is 13 months in length and is decentralized, with the majority of the clerkships spent with private practitioners throughout the State of Oklahoma; there are also out-of-state clerkships at other centers. For these reasons, it is necessary that the students be mobile during this particular phase of their education.

Physician Associate education is designed to train generalist practitioners and therefore covers the major disciplines that comprise primary care.

There are 13 clerkships, each lasting four weeks, during the clinical phase of the program, with experiences in the areas of medicine, surgery, pediatrics, emergency services, family practice, OB/GYN, and mental health.

Graduates of the PA program are able to work in a variety of disciplines and practice settings.

College of Nursing

Carole A. Kenner, Dean
1100 N. Stonewall
Oklahoma City, OK 73117-1297
Phone: (405) 271-2439
FAX: (405) 271-3443
Internet: http://www.nursing.ouhsc.edu/

The College of Nursing offers the Bachelor of Science degree in Nursing (BSN) and the Master of Science degree with a major in Nursing. The traditional undergraduate program is open to qualified high school graduates seeking the bachelor’s degree. A special track leading to the bachelor’s degree is available to registered nurses with no bachelor’s degree. Licensed vocational nurses who meet admission requirements may earn advanced standing credit toward the bachelor’s degree. Another special track leading to the master’s degree is available for registered nurses with a non-nursing bachelor’s degree. An accelerated BSN track is also available for non-nurses who have a bachelor’s degree in any field, specific prerequisite courses, and a qualifying GPA. A post-master’s Nurse Practitioner Certificate Program is also offered.
Bachelor of Science in Nursing

Upon completion of the course requirements the Bachelor of Science in Nursing degree is conferred and the graduate is then eligible to apply to take the examination for licensure as a registered nurse. Graduates of the program are prepared to practice medical-surgical, pediatric, community health, gerontological, maternal-child, or psychiatric-mental health nursing in a variety of health care settings including hospitals, home health agencies, health departments, nursing homes, industry and public schools.

PREADMISSION ADVISEMENT

Students are encouraged to establish contact with College of Nursing counselors prior to enrollment in prerequisite course requirements.

Students should contact:
University of Oklahoma College of Nursing
Office of Student/Alumni Affairs
P.O. Box 26901
Oklahoma City, Oklahoma 73190
Telephone: (405) 271-2428 or call toll free (800) 879-9234.

ADMISSION

Students pursuing a Bachelor of Science in Nursing degree may attend the University of Oklahoma, Norman campus, during the freshman and sophomore years. Credits required for the first two years may also be transferred from other colleges or universities. Prerequisites include 67 hours of approved coursework in specified courses and electives. All prerequisite courses, except electives and courses in U.S. history and understanding artistic forms, must be completed prior to enrollment in the junior year nursing courses at the College of Nursing.

The following year-by-year schedule is a sample program of study. It is intended as a guide to aid the planning of the student’s program. The sequence of courses can vary in the first two years.

Required Prerequisite Courses

The following prerequisite courses or approved substitute courses must be completed with a minimum of C grade (2.00 on a 4.00 scale) or better before a student may enroll in the nursing major courses. Students should contact a College of Nursing counselor to identify courses which are accepted as substitutes for the prerequisite courses.

PRE-NURSING SAMPLE PREREQUISITE COURSE PLAN (CODE 203)

FRESHMAN YEAR—First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1113</td>
<td>English 1113</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 1114</td>
<td>Zoology 1114</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 1121</td>
<td>Zoology 1121</td>
<td>1</td>
</tr>
<tr>
<td>*CHEM 1315</td>
<td>Chemistry 1315</td>
<td>5</td>
</tr>
<tr>
<td>PSC 1113</td>
<td>Psychology 1113</td>
<td>3</td>
</tr>
<tr>
<td>Psychology/Sociology/Anthropology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education (Core Area IV)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL HOURS</td>
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Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>Psychology/Sociology/Anthropology</td>
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<td></td>
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<tr>
<td>General Education (Core Area IV)</td>
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<td>TOTAL HOURS</td>
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Summer Session

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<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>*MBIO 2815</td>
<td>Biology 2815</td>
<td>5</td>
</tr>
<tr>
<td>HIST 1483 or 1493</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL HOURS</td>
<td>8</td>
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SOPHOMORE YEAR—First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>*ZOO 2255</td>
<td>Zoology 2255</td>
<td>5</td>
</tr>
<tr>
<td>HSS 1823</td>
<td>Health 1823</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2603</td>
<td>Psychology 2603</td>
<td>3</td>
</tr>
<tr>
<td>Electives (4 hours) or 5 hours Foreign Language</td>
<td>4–5</td>
<td></td>
</tr>
<tr>
<td>TOTAL HOURS</td>
<td>15–16</td>
<td></td>
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Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>*ZOO 2124</td>
<td>Zoology 2124</td>
<td>4</td>
</tr>
<tr>
<td>Statistics (PSY 2003 or COMM 2513)</td>
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<td></td>
</tr>
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</table>

Psychology/Sociology/Anthropology Culture (3000-4000 level) | 3 |
*Foreign Language | 5 |
General Education (Core Area IV) | 3 |
TOTAL HOURS | T3–T8 |

*Courses with prerequisites: consult with adviser.
‡Second foreign language course could be taken in the summer following the sophomore year.

It is highly recommended that the General Education foreign language requirement be completed in high school.

APPLICATION

Application deadline for the College of Nursing is January 15 of the year in which enrollment is sought. It is the responsibility of the applicant to supply complete credentials that include:

1. Completed application for admission to the University of Oklahoma.
2. Completed College of Nursing Supplemental Data Form.
3. Official transcripts from all colleges and universities attended.
4. Verification of spring enrollment.

Admission is limited; criteria and priorities are:

1. Enrollment in or completion of at least 30 semester hours of prerequisite courses at the time the application for admission to the College of Nursing is submitted.
2. A minimum grade of C in all prerequisite courses.
3. A cumulative grade point average of 2.50/4.00 for all college work taken at OU, as well as all coursework carrying a letter grade. Academic credit earned from any division of the University of Oklahoma—Norman Campus, Health Sciences Center, OU–Tulsa, University of Oklahoma College of Continuing Education—is considered resident credit at the University of Oklahoma. Grades earned at any of these divisions are included in the OU retention and cumulative grade point average for purposes of admission or re-admission to the University, and to the individual colleges within the University.
4. Priority is given to applicants with grade point averages exceeding the 2.50/4.00 cumulative requirement.
5. Priority is given to applicants who complete prerequisites prior to or during the spring semester following submission of the application.
6. Priority is given to legal residents of Oklahoma.
7. Priority is given to students transferring a minimum of 25 academic credit hours from the University of Oklahoma, Norman Campus.

SELECTION PROCESS

Application materials are screened by the Office of Admissions and Records and forwarded to the College of Nursing Office of Student/Alumni Affairs. Applications for admission to the baccalaureate program are reviewed and evaluated by the College of Nursing Admission-Progression-Graduation Committee. The selection committee considers all applicants without discrimination in regard to age, creed, ethnic origin, marital status, race or sex. Students are selected for admission according to the criteria described in this catalog.

The Office of Admissions and Records notifies each student of the committee’s action. Students are required to respond to an offer of a position or an alternate position by the date specified.

Accelerated Baccalaureate Degree in Nursing for Second Degree Students

Beginning June 2004 the College of Nursing will offer and accelerated BSN program for students with a bachelor’s degree in any field, appropriate prerequisite course work and a qualifying GPA. Students in the Accelerated BSN program earn a Bachelor of Science degree in Nursing (BSN) following successful completion of 14 months of full-time study. Graduates of this program are eligible to apply to take the examination for licensure as a registered nurse and are prepared to practice nursing in a variety of settings. They are eligible to continue their studies in the graduate nursing program.
Career Ladder Program for Registered and Licensed Practical Nurses

The College of Nursing offers flexible, individualized programs for Registered Nurses and Licensed Practical Nurses who wish to obtain the Bachelor of Science in Nursing degree. Full- or part-time schedules are available and classes are scheduled at hours convenient for the working student. Advanced standing credits for up to 30 hours of nursing courses is available through various validation mechanisms. Interested nurses should contact the College of Nursing Office of Student/Alumni Affairs at (405) 271-2428 or call toll free 1-800-879-9234.

Career Ladder Program for Non-Nursing Health Care Workers

The College of Nursing offers opportunities for persons with experience in health care (i.e. operating room technicians, emergency medical technicians, medical corpsmen) to complete requirements for the Bachelor of Science in Nursing. Non-nursing health care workers can earn advanced standing credit up to 14 hours of nursing theory courses by successful completion of standardized examinations. Interested persons should contact the College of Nursing, Office of Student/Alumni Affairs at (405) 271-2428 or toll free 1-800-879-9234.

College of Pharmacy

Douglas W. Voth, Ph.D., Dean
1110 N. Stonewall
Oklahoma City, OK 73117-1223
Phone: (405) 271-6484
FAX: (405) 271-3830
Internet: http://www.pharmacy.ouhsc.edu/

The College offers the doctor of pharmacy as the sole entry-level professional degree. The doctor of pharmacy degree program of the University of Oklahoma is accredited by the American Council on Pharmaceutical Education. Graduates of the program are qualified to sit for the pharmacist licensure examination in all 50 states.

The doctor of pharmacy curriculum balances the basic sciences, which are fundamental to learning new concepts, and the clinical sciences, that are essential for delivering comprehensive pharmaceutical care. The College strives to educate professionals who understand the need for life-long learning and students are encouraged to use their elective hours to complete additional humanities and science courses along with general education requirements. Offering an excellent student to faculty ratio, the College provides personalized instruction to students in a broad array of professional courses and a number of student professional organizations and an active student government.

The doctor of pharmacy program provides the clinical training and experience required of entry-level positions in all areas of contemporary pharmacy practice. About one-half of the pharmacy graduates today select a career in community pharmacy and one-third practice in hospitals or related health-system agencies. The remaining graduates choose from diverse opportunities in pharmaceutical industry, government, or education. There are currently five board-certified specialties in pharmacy—pharmacotherapy, psychopharmacy, nutrition, oncology, and nuclear pharmacy.

The doctor of pharmacy degree is awarded after successful completion of an approved four year course of professional study following the completion of the preprofessional prerequisites. The prepharmacy requirements may be completed on the Norman campus of the University of Oklahoma or at any other accredited institution offering the required courses. Admission to the professional program is based upon the academic record of the applicant without regard to the institution attended.

The College of Pharmacy also offers the M.S. and Ph.D. degrees in pharmaceutical sciences through the Graduate College. These are research-based programs comparable to graduate degrees in other fields of science, require a thesis/dissertation, and do not qualify graduates for professional licensure. Candidates for admission may hold an entry-level pharmacy degree (B.S. or Pharm.D.) or a degree in another area of science. The primary purpose of these programs is to provide advanced scientific education in preparation for careers in pharmaceutical education, research, and industry.

PRE-PHARMACY ADVISING AND COUNSELING

Prepharmacy advising and counseling is available at the Health Sciences Center through the Office of Pharmacy Student Services located in Room 117 of the College of Pharmacy Building. Applicants may speak to a prepharmacy advisor at (405) 271-6598. Prepharmacy students on the Norman campus are assigned an adviser in University College.

PRE-PHARMACY CURRICULUM

Admission to the doctor of pharmacy program requires a minimum of two years of preprofessional university study and completion of approximately 60 semester hours of approved prepharmacy courses. Applicants must meet the prerequisites listed below prior to admission. The course numbers listed represent courses offered at the University of Oklahoma. Equivalent courses are available at most colleges and universities. Equivalency tables are available through the preprofessional counseling centers of Oklahoma colleges and universities. The sequence of prepharmacy courses will vary depending upon the schedule and specific prerequisites of the different institutions. Students entering the college of pharmacy curriculum are also expected to have computer proficiency at or above the level of basic word processing skills. A course emphasizing basic business or professional computing or equivalent experience is recommended. All students are encouraged to contact a prepharmacy counselor at the College of Pharmacy for assistance in planning an appropriate prepharmacy program of study.

Courses on the Norman campus which fulfill the prepharmacy requirements are listed in parentheses.

- English Composition (ENGL 1113 and 1213)..................6
- U.S. History (HIST 1483 or 1493)...............................3
- U.S. Government (PSC 1113)....................................3
- Calculus (MATH 1743 or 1823).................................3
- Social & Behavioral Sciences Selective.....................3
- Business and Economic Science Selective................3
- Anatomy or Physiology (ZOO 2124 or 2424)..............5
- Pathogenic Microbiology (MBIO 3813 & 3812).............5
- General Chemistry (CHEM 1315 & 1415)...................10
- Organic Chemistry (CHEM 3053, 3152, 3153).............8
- General Physics (PHYS 2414 or 2442)......................4-5
- Anatomy or Physiology (ZOO 2124, 2204, 2224, 2225, or 3104)....4-5
- General Education and Electives—see below
- Minimum Total ..................................................60

General Education

The College of Pharmacy has maintained general education requirements for all graduates of the doctor of pharmacy program to encourage a broader educational experience. Students are exempt from general education requirements if they: (1) earned an associate degree from an institution in the Oklahoma State System of Higher Education; or (2) earned a baccalaureate degree from an accredited institution of higher education. The foreign language requirement consists of two semesters of college credit in the same language or completion of two years of the same foreign language in high school.

- Understanding Artistic Forms..................................3
- Western Civilization and Culture.............................3
- Non-Western Cultures..........................................3
- Foreign Language ...............................................6-10

APPLICATION PROCEDURE AND ADMISSION REQUIREMENTS

Application for admission to the doctor of pharmacy program requires completion of official registration forms provided in a formal application packet or on forms available on the Health Sciences Center’s internet site for the Office of Admissions and Records (see http://www.admissions.ouhsc.edu).
The following are required for admission to the doctor of pharmacy program:

1. Completion of all required prepharmacy courses with a grade of C or above and a minimum preprofessional grade point average (GPA) of 2.5 on a 4.0 scale. Students who have completed course work at the University of Oklahoma must have an OU GPA of 2.00 or above. Applicants must be in good standing with the college or university last attended.

2. Submission of the required OUHSC application forms and fees by the established deadline date. The required forms include a letter of intent addressed to the Pharmacy Admissions Committee, the College of Pharmacy supplemental form, official transcripts from all colleges and universities attended, and three letters of recommendation on the forms provided in the application packet. Required fees include an OUHSC application fee of $25.00 and a $25.00 departmental processing fee. These fees cannot be waived. Acceptance of late and/or incomplete applications is at the discretion of the Admissions Committee, and will be made upon the individual circumstances.

3. Completion of the Pharmacy College Admission Test (PCAT). Additionally, individuals for whom English is a second language must attain a TOEFL score of 550. Information on these examination is available from The Psychological Corporation, PO Box 91581, Chicago, IL 60693, (1-800/622-3231). Applicants who have not completed or scheduled the required tests at the time of admission should contact the Office of Pharmacy Student Services for additional information. Applicants are advised to sit for these examination prior to February of the admission year to provide the needed information to the Admissions Committee in a timely manner.

4. Completion of a personal interview and submission of a written personal statement or essay as directed. The most highly qualified applicants will be extended invitations to interview. This invitation to interview does not imply acceptance for admission and all expenses are the responsibility of the applicant.

Admission to the doctor of pharmacy program is on a competitive basis and a class of 75 students is admitted each fall semester. The deadline for application is November 1 of the year prior to admission. All admission documents must be submitted by this deadline. Applicants should be scheduled to complete all required prepharmacy courses by June 1 of the admission year. Residents of Oklahoma will receive some preference in the selection process but all qualified candidates are encouraged to apply.

Applicants who have completed all admission requirements and interviews are generally advised of their admission status in March of the admission year.

STUDENTS WITH A PRIOR DEGREE

An increasing number of students admitted to the College of Pharmacy have earned a prior degree in another discipline. Individuals with a recent degree in science usually have fulfilled most of the prepharmacy requirements. Those who have been out of school for more than several years, or who have degrees in nonscience areas, generally require some current courses in science and/or mathematics to prepare for the professional curriculum. Individuals who have completed or are currently completing another degree and are interested in pharmacy are invited to contact the College of Pharmacy to discuss prerequisite requirements. The prepharmacy counselor will provide advice on an appropriate program of study as well as career options open to individuals with other degrees.

GRADUATION REQUIREMENTS

The doctor of pharmacy degree is a four year professional degree. Successful completion will require approximately 200 credit hours including the 60 hours of preprofessional prerequisites. The doctor of pharmacy degree is awarded after successful completion of the curricular requirements with a minimum cumulative grade point average of 2.0 out of a possible 4.0.

CAREER OPPORTUNITIES

Pharmacy provides a diversity of career options and affords the individual the opportunity to attain personal goals while achieving professional satisfaction. Career opportunities are expected to remain strong for graduates as pharmacists move into innovative and rewarding roles within the changing health care arena. The increasing numbers of elderly and the more culturally diverse population will require more highly skilled pharmacists to provide the care and services necessary to meet society’s health care needs. Pharmacists will continue to participate in the scientific advances and development of new and novel drug products and delivery systems for the prevention, diagnosis and treatment of disease. They will also be essential partners with well-informed consumers and other health professionals who require detailed information about the proper use and management of drug therapy. The increasing severity of the typical patient’s illness in acute care settings coupled with the major strides in drug development, is likely to heighten the demands placed on clinically trained pharmacists in all health care settings.

The career outlook for pharmacists is excellent. Salaries for pharmacy graduates are influenced by location, size, and type of employer; the education and professional attributes of the pharmacist; and position requirements and responsibilities. Graduates also have a number of post-graduate training and education opportunities available to them to develop the skills necessary to enter advanced practice positions and environments. Whatever career track is selected by a pharmacy graduate, the University of Oklahoma College of Pharmacy provides the educational excellence necessary to attain this goal.

Additional information on the doctor of pharmacy program is available from the Office of Pharmacy Student Services at (405) 271-6598.

Graduate College

Dr. James J. Tomasek, Dean
1000 Stanton L. Young Blvd.
Library, Room 258
Oklahoma City, OK 73190
Phone: (405) 271-2085
FAX: (405) 271-1155
Internet: http://www.ouhsc.edu/graduate/
e-mail: grad-college@ouhsc.edu

The Graduate College is the center of research, advanced study and creative and scholarly work at the University of Oklahoma. The college is designed to produce the environment essential to a graduate education, and the principal goals of its graduate faculty are the encouragement of advanced intellectual achievement, scholarship and research.

The Graduate College challenges students to develop a better grasp of their chosen fields, to develop skills and methods of research and to increase their abilities of independent thought. To these ends, the OU Health Sciences Center provides excellent library, laboratory and other learning facilities in addition to a close association with faculty, scholars and research investigators.

To insure policy adherence and academic excellence, the Graduate Council and the Dean of the Graduate College supervise and evaluate the departments and program units that offer master’s and doctoral degrees. The graduate faculty is responsible for instruction, for guiding graduate students in the development of their programs, and for pursuing investigations associated with a particular field or discipline. Graduate students are expected to demonstrate initiative and to assume responsibilities for the progress of their studies. Although coursework is the basis for wider reading and personal inquiry, students must master subjects, not merely course assignments. A graduate degree is conferred for mastery of a field and a thorough understanding of its related branches.

Accredited by the North Central Association of Colleges and Secondary Schools, the Graduate College is a member of the Council of Graduate Schools. In addition, several specific graduate degree programs are accredited by their respective professional and accrediting agencies.

New facilities and technology, plus an internationally prominent faculty, are combining to make the University of Oklahoma Health Sciences Center the next century’s regional leader in education, research, and patient care. The OU Health Sciences Center serves as Oklahoma’s principal education facility for physicians, nurses, dentists, biomedical scientists, pharmacists,
physician associates and a wide range of allied health and public health professionals. Its seven colleges—Medicine, Dentistry, Nursing, Pharmacy, Allied Health, Public Health, and Graduate—are home to more than 3,000 undergraduate, graduate, and professional students.

The Health Sciences Center is located adjacent to the state capital and is a cornerstone of the 200-acre Oklahoma Health Center complex, which includes 19 affiliated state and private institutions and agencies. The campus is five minutes by car from downtown Oklahoma City, which offers a variety of cultural and sporting events. Tulsa is two hours away by car. The Norman campus of the University of Oklahoma, hosting numerous athletic and cultural events, is 25 minutes away.

The College of Allied Health serves the educational needs of the health-related professions, and thus it offers unique advantages for the advancement of health professionals. The Department of Allied Health Sciences offers a Ph.D. degree with specialization in Academic Leadership, Nutritional Sciences, and Rehabilitation Sciences and an M.S. with specialization in Medical Dosimetry. The M.S. degree in Nutritional Sciences is offered through the Department of Nutritional Sciences, and the M.S. in Rehabilitation Sciences degree is available through the Department of Rehabilitation Sciences. An M.S. degree in Speech-Language Pathology and Ph.D. degrees in Audiology and Speech-Language Pathology is offered through the Department of Communication Sciences and Disorders.

The biomedical science departments provide an opportunity for in-depth study and research in biological and behavioral sciences. Graduate Programs in Biomedical Sciences (GPBBS) is an interdisciplinary Ph.D. program which combines the expertise of faculty from seven participating departments and programs: Biochemistry and Molecular Biology, Cell Biology, Microbiology and Immunology, Neuroscience, Pathology, Pharmacology and Toxicology, and Physiology. In the areas of Biological Psychology and Radiological Sciences M.S. and Ph.D. degrees are available. Medical sciences option for these programs which has a concentration in one of the basic medical sciences is also available.

Through the College of Pharmacy, the Graduate College offers both the M.S. and Ph.D. degrees in the pharmaceutical sciences. Students may select from one of the following major areas of specialization in pharmaceutical science: nuclear pharmacy, pharmacology/toxicology, and pharmacy administration.

In the patient care area, a M.S. degree is offered in dental sciences and nursing. The dental sciences program includes orthodontics and periodontics. Graduate students are prepared to manage a full range of patient care problems within the chosen specialty area. The goal of the M.S. degree in nursing is to develop the advanced nursing competency necessary for professional leadership roles in nursing.

Through the College of Public Health, the Graduate College offers programs leading to the M.S. and Ph.D. degrees. The graduate programs include: biostatistics and epidemiology—areas of concentration are applied biostatistics, statistical methodology, epidemiology of chronic diseases, epidemiology of infectious diseases, epidemiology of neurological diseases, epidemiology of mental and behavioral health, occupational and environmental health with emphases in environmental health, environmental management, occupational health, and environmental epidemiology/toxicology; and health promotion sciences, a program which emphasizes health education. Students interested in public health graduate programs should request additional information from the Dean of the College of Public Health prior to submitting an application for admission.

If your career and educational goals encompass one or more of the health-related areas, you should consider seeking a graduate degree at the OU Health Sciences Center. For more information, contact the Graduate College at www.ouhsc.edu/graduate or:
The Graduate College
The University of Oklahoma
Health Sciences Center
1000 Stanton L. Young Blvd.
Library, Room 258
Oklahoma City, Oklahoma 73190

Areas and Degrees Offered

ALLIED HEALTH SCIENCES

Degrees offered: Master of Science, Doctor of Philosophy

The Doctor of Philosophy degree program in Allied Health Sciences is interdisciplinary and designed to promote knowledge across disciplines and informed collaboration among disciplines. The individualized program is designed to meet each student’s educational goals. Graduate courses from any of the departments within the College of Allied Health, the Health Sciences Center campus, or the Norman campus may be selected as a part of a student’s individualized program. Graduates of the program will be prepared to assume leadership roles in research, education, public policy, and administration of health care services. A Master of Science degree program in Allied Health Sciences with a specialization in medical dosimetry is available beginning Fall 2004. The program is designed for individuals who have a baccalaureate degree and certification as a radiation therapist. Graduates will be prepared to practice medical dosimetry as well as to function as a contributing member of the ever-changing health care industry.

BIOCHEMISTRY AND MOLECULAR BIOLOGY

Degrees Offered: Master of Science, Doctor of Philosophy, M.D./Ph.D.:
Medicine/Doctor of Philosophy

Our research-intensive doctoral program is designed to prepare students for successful careers as independent scientists in academic research, biotechnology and pharmaceutical industries, health and biomedical science management or teaching. Our recently redesigned master’s program also is research-based, and includes coursework designed to provide enhanced education opportunities for students who wish to extend their knowledge, experience and opportunities for advancement in research laboratories at universities, research institutes or biotechnology companies. The curriculum, separate from that of the doctoral program, emphasizes understanding of research procedures as well as development of technical and problem-solving skills.

BIOLOGICAL PSYCHOLOGY

Degrees Offered: Master of Science, Doctor of Philosophy, M.D./Ph.D.:
Medicine/Doctor of Philosophy

The Graduate Program in Biological Psychology, leading to the degree of Doctor of Philosophy, is centered in the Department of Psychiatry and Behavioral Sciences, but involves close collaboration with several clinical and basic biomedical departments of the College of Medicine. The overall objective of the program is to educate and train doctoral level candidates to become capable of conducting basic and/or applied research in behavioral neuroscience and biological psychology. Given the program’s location in a health sciences center and the need for clinical researchers, emphasis will be placed on health-related problems.

Areas of Research: Behavioral neuroscience/human neuropsychology; psychophysiology/behavioral medicine-health psychology; and psychopharmacology/substance abuse. Fully instrumented laboratories for both animal and human research are provided, with an emphasis on the human organism.

BIOSTATISTICS AND EPIDEMIOLOGY

Degrees Offered: Master of Science, Doctor of Philosophy.

The Department of Biostatistics and Epidemiology has two main objectives: 1) teach the concepts of biostatistics and epidemiology essential to all students in the health sciences, and 2) educate master's and doctoral students who are pursuing specialization in the fields of biostatistics or epidemiology. Although the department functions as a single administrative unit, it includes two distinct disciplines: biostatistics and epidemiology. A student may work toward a master's or doctoral degree in either discipline, depending on his or her interests and background. Each discipline has a different set of required courses; however, there is some flexibility in the program to allow each student to develop his or her strengths and interests through elective courses.
Areas of Research: Epidemiology; early detection, prevention, and control of cancer; renal disease; childhood diseases; cardiovascular disease; neurologic disease; hemophilia; diabetes mellitus; deep vein thrombosis; eye diseases; and partner’s violence. Research is being conducted in molecular/genetic epidemiology, social epidemiology, quality assurance and treatment efficiencies, logistic/multiple linear regression, epidemiology methods, teaching methods, experimental design, confidence intervals, clinical outcomes research, survey sampling methods, analysis of variance, non-parametric categorical data analysis, survival data analysis, and evaluation methods.

CELL BIOLOGY
Degrees offered: Master of Science, Doctor of Philosophy, M.D./Ph.D.: Medicine/Doctor of Philosophy

The interdisciplinary nature of the Cell Biology graduate program provides students with the breadth of knowledge and technical acumen that is highly sought in today’s competitive job market. Graduates from the Cell Biology program have numerous exciting career opportunities in academia, industry, government and the private sector. To fulfill students’ specialized needs and interests, the department offers advanced courses taught by faculty whose expertise is closely related to the contents of the course work. Students may also choose curricula that emphasize anatomical or pharmacological studies.

Areas of Research: Cell biology of connective tissue; reproductive biology and neuroendocrinology; cell biology of the nervous system; development and plasticity of central nervous system motor areas; sprouting and plasticity in the nervous system; developmental processes related to regeneration and determinants of cell growth and differentiation; molecular biology of the retina; pharmacology of the nervous system; mechanisms of cell signaling.

COMMUNICATION SCIENCES AND DISORDERS
Degrees offered: Master of Science, Doctor of Philosophy

The Department of Communication Sciences and Disorders offers the following degrees through the Graduate College: The Master of Science (M.S.) degree in speech-language pathology (with or without a thesis) and the Doctor of Philosophy (Ph.D.) degree in audiology and speech-language pathology. Service programs operated by the department provide primary practicum sites for educating audiologists and speech-language pathologists. Graduates of the program in both speech-language pathology and audiology have found employment in a variety of settings. Department of Labor projections indicate continued favorable employment status for both professions through 2010.

Areas of Research: Ongoing psycho-acoustic, electrophysiologic, psychophysical, and physiological research in audiology and speech-language pathology places emphasis on both clinical and basic science areas. Up-to-date and comprehensive instrumentation is available for air pressure and flow measurements, event-related potentials, electroacoustic measure and analysis, data acquisition, recording, retrieval, and readout. Active faculty research programs span a variety of sub-disciplines: voice and its disorders, articulation and phonological disorders, developmental language and its disorders, normal neurolinguistic processing, acquired neurolinguistic disorders in children and adults, pediatric audiology, hearing aids, psychoacoustics, and neurophysiology.

GENETIC COUNSELING
Degrees offered: Master of Science

The Master of Science in Genetic Counseling is centered in the Department of Pediatics of the College of Medicine, but involves close collaboration with other departments in the College of Medicine, the College of Public Health, and the Oklahoma Medical Research Foundation. The overall objective of the program is to educate and train master level candidates to become capable of providing genetic counseling to patients and families with known or suspected genetic conditions and to perform basic and/or clinical research in all areas of genetics.

HEALTH PROMOTION SCIENCES
Degrees offered: Master of Science, Doctor of Philosophy

The Department of Health Promotion Sciences prepares public health professionals for leadership roles in the development, promotion and application of social and behavioral science and educational theory as well as methods for solving community health problems. Courses and degree programs are directed toward two groups of students: those who wish to pursue a graduate degree in the field, and those disciplines who seek supporting knowledge in the field. Concentration of graduate and professional studies in the Department of Health Promotion Sciences may lead to a Master of Science or Doctor of Philosophy degree.

Areas of Research: Health education and health promotion; community approaches to health promotion; strengthening community and organization approaches to health promotion; health of school-age children and adolescents; health of Native Americans; and health education of the elderly and special populations such as persons with disabilities and minority groups.

MICROBIOLOGY AND IMMUNOLOGY
Degrees offered: Master of Science, Doctor of Philosophy, M.D./Ph.D.: Medicine/Doctor of Philosophy

The graduate programs of the department are designed to prepare students for careers in academic and research areas of microbiology and immunology. The department offers graduate programs leading to doctoral degrees. Individual programs of study and research are tailored to student needs by an advisory committee. Programs are based upon a curriculum designed to provide a solid scientific background with courses chosen from this department as well as other departments within the University. Students in other departments may minor in Medical Microbiology and Immunology. Graduates leave with a sound background in pathogenic bacteriology, mycology, virology, bacterial metabolism, microbial genetics, immunology, and molecular biology.

Areas of Research: Molecular pathogenesis of staphylococci and streptococci; genetics and regulation of extracellular virulence factor genes; host resistance mechanisms and molecular pathogenesis of Cryptococcus; murine and human hybridoma technology; viral pathogenesis; molecular biology of microbial toxins; bacterial iron acquisition mechanisms; role of complement receptors in autoimmune and immunodeficiency diseases; the molecular basis of MHC Class I polymorphisms; HIV infected cell at a molecular and immunological level; non-human primate models for vaccination studies with bacterial, viral and tumor vaccines; and molecular biology of lyme disease pathogenesis.

NEUROSCIENCE
Degrees offered: Master of Science, Doctor of Philosophy, M.D./Ph.D.: Medicine/Doctor of Philosophy

The graduate program in Neuroscience emphasizes a multidisciplinary approach to understand the structure and function of the normal and diseased nervous system. The diversity of research represented in this program spans three focus areas: molecular neuroscience, systems neuroscience, and functional neuroscience. Molecular neuroscience involves biochemical investigations at the cellular and molecular levels and includes studies on neurotransmitter systems, pharmacology of neurotransmission, interactions of drugs with receptors, molecular biology of neurological disease, and mechanisms of signal transduction. Systems neurobiology encompasses studies of multi-neuronal networks that range from small ensembles to neural circuitry underlying the control of cardiac and respiratory function, endocrine function and pain mechanisms. Functional neuroscience includes the disciplines of neurology, biological psychology and behavioral neuroscience. Students in the graduate program in Neuroscience are exposed to all three focus areas, providing a strong interdisciplinary foundation on which to build comprehensive and innovative research programs.

NURSING
Degrees offered: Master of Science with a major in nursing, Post-Master’s Nurse Practitioner Certificate

NUTRITIONAL SCIENCES

Degrees offered: Master of Science

The graduate program in the Department of Nutritional Sciences is a flexible program whose primary goal is to provide advanced education, training and research to selected students desiring to develop mastery in an area of nutrition. Those students accepted into the graduate program, as part of a DPD Program (Didactic Program in Dietetics) have the option of taking course work that will prepare them for a supervised practice experience, which is a requirement for registration-eligibility with the American Dietetic Association. Graduates of the program may be employed in public health settings, hospitals, clinics, local/state/federal government agencies, wellness centers, private practice, food companies, universities (teaching and research), private industry, and other areas.

Areas of Research: Protein-energy malnutrition, nutrition and growth, obesity, nutrition in women's health, nutrition and the physically disabled; interaction of carbohydrate, minerals and sex hormones in bone metabolism and nephrocalcinosis; nutrient intake and immune function in AIDS; nutrition and cancer; computer software and dietary assessment; nutrition and cardiovascular disease; dietetic education; sports nutrition and food science.

OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Degrees offered: Master of Science, Doctor of Philosophy

The objective of the Department of Occupational and Environmental Health is to unite an interdisciplinary training and research program for persons grounded in natural, physical and health sciences in order to develop an understanding of human response to the environment as well as the response of the environment to the activities of humans. Toward this end, the department has developed flexible and diversified programs of graduate study, field training, and basic and applied research to accommodate students with a wide range of academic and occupational backgrounds. Areas of study include Industrial Hygiene (ABET-accredited), Environmental Management, and the interdisciplinary Environmental Management & Industrial Hygiene program (also ABET-accredited), leading to the Master of Science, Master of Public Health, Doctor of Philosophy, and Doctor of Public Health degrees. Programs in Occupational Medicine for physicians and physician assistants lead to the Master of Public Health degree. Most courses are offered in the late afternoon and evening format for the convenience of practicing professionals.

Areas of Research: Occupational medicine, industrial hygiene, environmental epidemiology/toxicology; environmental management.

ORTHODONTICS

Degrees Offered: Master of Science

To meet the need for patient care and research in the field of orthodontics, a graduate program in this dental specialty was established in 1981. The program prepares dental graduates to manage the full range of dento-facial discrepancies which fall within the responsibility of the orthodontist. Current knowledge and research findings are applied to patient care in all age groups. A thesis is required. The degree awarded is a Master of Science in Dental Sciences, with orthodontics as the area of specialization.

Areas of Research: Growth, development and function of the stomatognathic system; balance or imbalance of dental occlusion; temporomandibular joint dysfunction, materials relevant to orthodontic practice, biologic tissue response, and physical or social adjustment of patients.

PATHOLOGY

Degrees Offered: Master of Science, Doctor of Philosophy, M.D./Ph.D.: Medicine/Doctor of Philosophy

Pathology is a bridging discipline involving both basic and clinical research. It is the study of molecular, cellular and tissue responses to disease. With a training focused on modern molecular, immunologic, biochemical and genetic tools to uncover the mechanisms of the disease process, the graduate program is designed to prepare individuals for careers in biomedical research. Graduate study in experimental pathology emphasizes hypothesis-driven research using cutting-edge research approaches that would lead to the development of independent new investigators.

Areas of Research: Immunology, molecular and vascular pathology, human and experimental renal pathology, gene expression, hemostasis, neutrophil function, lymphoproliferative diseases, blood-brain barrier systems, endotoxic shock, wound healing, biochemistry, development, tumor biology, and neuropathology.

PERIODONTICS

Degrees Offered: Master of Science

The Master of Science program is an accredited three-year experience, directed toward providing opportunities for the development of expert clinicians and teachers who have a background of comprehensive clinical experience, current basic science knowledge relevant to dentistry, and research methodology. Completion of the 36-month program leads to the Master of Science degree in Periodontics awarded by the Graduate College. A thesis based on an investigative project is required of each candidate. Additionally, a certificate is issued to designate a proficiency in periodontics.

Areas of Research: Includes the systemic and local etiologic factors in the development of periodontal diseases, and the prevention and treatment of these diseases.

PHARMACEUTICAL SCIENCES

Degrees Offered: Master of Science, Master of Science/Master of Business Administration, Pharm.D./Master of Science, Doctor of Philosophy

The Department of Graduate Pharmaceutical Sciences offers graduate degree programs leading to both the Master of Science and Doctor of Philosophy degrees. These degree programs are designed to prepare scientists-educators-practitioners for careers in pharmaceutical education, research, industry and related areas of specialized practice. Pharmaceutical sciences graduate students may choose one of six major areas of specialization; individual programs of study and research projects within each of these areas are quite diverse because of interdisciplinary activities of the department.

Areas of Research: Medicinal chemistry; nuclear pharmacy; pharmacology/toxicology; pharmacetics; and pharmacy administration. Research is supported by the National Institutes of Health, Department of Defense, pharmaceutical industry, and private foundations. Graduate students are expected to demonstrate an ever-increasing ability to independently identify and resolve significant problems in their area of specialization.

PHYSIOLOGY

Degrees offered: Master of Science, Doctor of Philosophy, M.D./Ph.D.: Medicine/Doctor of Philosophy

The Physiology graduate program provides comprehensive training in integrative sciences incorporating the tools and techniques of physiology with other disciplines to conduct research at the molecular, cellular, organ, and whole animal levels. The doctoral program prepares students for academic careers involving research and teaching as well as other careers where physiological training is required. The master's program is designed to strengthen the credentials of teachers and health professionals.

Areas of Research: Cellular, molecular, cardiovascular, exercise, and fetal/maternal physiology; regulatory mechanisms influencing cardiopulmonary function and pain transmission; neuroendocrinology/physiology; muscle biochemistry; and epithelial transport. In addition, there is a specialty non-thesis M.S. program in exercise physiology.

RADIOLOGICAL SCIENCES

Degrees Offered: Master of Science, Doctor of Philosophy

The graduate programs of the department provide the educational background for the profession of Medical Radiation Physics, which applies physics to the medical specialties of radiation therapy, diagnostic radiology,
nuclear medicine, ultrasound, computed tomography, and magnetic resonance imaging. Potential students are encouraged to correspond directly with the graduate liaison to obtain descriptive information on the profession of Medical Radiation Physics and the department's master's and doctoral programs.

**Areas of Research:** diagnostic radiology, therapeutic radiology, nuclear medicine, magnetic resonance imaging, and ultrasound. Current emphasis is placed on pattern recognition, observer performance, medical decision-making, radiation therapy treatment planning, image processing, computer applications in the radiological sciences, dosimetry with thermoluminescent materials, radioactive isotopes, diagnostic ultrasound, Roentgen diagnosis, computed tomography, quality control in radiology, and radiobiology.

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**REHABILITATION SCIENCES**

**Degrees offered:** Master of Science

The Master of Science (M.S.) degree in Rehabilitation Sciences is designed to provide physical therapists and occupational therapists an opportunity to achieve a level of academic accomplishment that will allow them to address complex issues of professional practice through: (1) improving their clinical and basic science knowledge; (2) acquiring in-depth theoretical knowledge in an area of specialization; and (3) developing clinical research competence. As the program objectives are being met, a flexible curriculum enables learners to pursue individual interests and goals and to acquire the background necessary for doctoral program entry in physical therapy, occupational therapy or related disciplines. The master's program is organized into two areas of disciplinary specialization: musculoskeletal rehabilitation and neurological rehabilitation. Within these areas of specialization, the student may choose orthopedics, sports physical therapy, geriatrics, or pediatrics as an area of emphasis.

**Areas of Research:** The post-professional Master of Science degree program in Rehabilitation Sciences is designed for physical therapists, occupational therapists and others in closely related disciplines. The program is designed to permit students to build upon their professional disciplines and to follow individualized plans of study according to their future goals and past experiences. The program provides opportunities for students to develop as clinical specialists, clinical researchers, and/or faculty members. With an interdisciplinary approach to the core and cognate areas of the curriculum, the program allows students to supplement advanced information offered in the chosen areas of specialization with knowledge gained in graduate courses taught by faculty throughout the university. The program offers specialization in orthopedics, pediatrics, and sports medicine.

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**College of Public Health**

**Gary E. Raskob, Ph.D., Dean**

801 N.E. 13th St.

Oklahoma City, OK 73104-5072

Phone: (405) 271-2232

FAX: (405) 271-3039

Internet: [http://www.coph.ouhsc.edu/coph/](http://www.coph.ouhsc.edu/coph/)

The OU College of Public Health is one of only 33 accredited schools of public health in the United States and the only school of public health in Oklahoma.

**PROGRAMS OFFERED**

A multi-disciplinary faculty prepares students for public health practice in five core areas: biostatistics, epidemiology, health administration and policy, health promotion sciences and occupational and environmental health as well as two specialty areas, general public health and public health preparedness and terrorism.

Professional degrees offered by the College are the Masters of Public Health (MPH), the Master of Health Administration (MHA) and the Doctor of Public Health (DrPH). Graduate degrees offered are the Master of Science (MS) and the Doctor of Philosophy (PhD). The College also offers a professional certificate in public health targeted toward those who can benefit from formal public health instruction, but for whom the MPH degree is either not desirable or necessary for their career trajectory. The College conducts classes at the OU Health Sciences Center in Oklahoma City and at the Schusterman Academic Center in Tulsa. A state-of-the-art distance education program delivers courses to remote sites throughout the state.

**ADMISSION**

Students pursuing a degree in public health come with diverse backgrounds including natural or health sciences, business and social sciences. Requirements for admission include

- a bachelor’s or higher degree from an accredited college or university;
- a grade point average of 3.0 in the last 60 hours of coursework;
- three references supporting scholastic and leadership abilities; and
- a career goal statement.

The GRE is required of all Ph.D. and Dr.P.H. applicants. M.HA. applicants with a grade point average below 3.5 are required to submit the GRE or GMAT.

**Academic Departments**

**BIOSTATISTICS AND EPIDEMIOLOGY**

**Degrees offered:** Master of Science, Master of Public Health, Doctor of Philosophy, Doctor of Public Health. In addition, a Bachelor of Science/Master of Science degree (BS/MS) is offered for undergraduate students who wish to earn both a bachelor's degree in mathematics and a master's degree in biostatistics within four to five years.

**Areas of Research:** Tobacco use prevention; cancer epidemiology; cardiovascular disease epidemiology; clinical trials; maternal and child health; outcomes research/decision making; infectious disease epidemiology; neurological diseases in children; diabetes; bioinformatics; evaluation of statistical techniques.

**HEALTH ADMINISTRATION AND POLICY**

**Degrees Offered:** Master of Health Administration, Master of Public Health, Doctor of Public Health, Master of Public Health/Juris Doctor, Master of Public Health/Master of Business Administration. The Master of Health Program is accredited by the Accrediting Commission on Education for Health Services Administration (ACEHSA).

**Areas of Research:** Health management; quality; economics; health law; public policy; public health; health care systems.

**HEALTH PROMOTION SCIENCES**

**Degrees Offered:** Master of Science, Master of Public Health, Doctor of Philosophy, Doctor of Public Health

**Areas of Research:** Health promotion: school, worksite, community; psychosocial stress/mental health; American Indian health issues; minority health/health disparities; program evaluation; gerontology; physical activity, nutrition, obesity; adolescent health.

**OCCUPATIONAL AND ENVIRONMENTAL HEALTH**

**Degrees Offered:** Master of Science, Master of Public Health, Doctor of Philosophy, Doctor of Public Health. Both the Master of Science (MS) and Master of Public Health (MPH) degree programs in industrial hygiene as well as the environmental management/industrial hygiene interdisciplinary MS and MPH programs are accredited by the Applied Science Accreditation Commission (ASAC) of the Accreditation Board for Engineering and Technology (ABET).

**Areas of Research:** Biomedical waste management; health effects of occupational exposure; aerosol science; occupational epidemiology; air pollution; food borne disease prevention.
Honors College

Honors House, 1300 Asp Avenue
Norman, OK 73019-0385

Phone: (405) 325-5291
FAX: (405) 325-7109

Internet: http://www.ou.edu/honors

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Administrative Officers
Robert L. Griswold, Ph.D., Interim Dean and Professor of History
Carolyn S. Morgan, Ph.D., Associate Dean and Associate Professor of Sociology, Women's Studies, and Human Relations
Melanie L. Wright, Ph.D., Director of Honors Curriculum
Jeffrey A. Bloomgarden, M.S., Director of OU Scholars Program
Carol Carr, M.Ed., Academic Counselor
Christiana M. Norman, M.H.R., Academic Counselor
Jeannine Desmarais, M.H.R., Academic Counselor

Faculty Roster
Professor Gillon; Associate Professors Alpers, Lewis, Morgan, Treat; Assistant Professors Ehrhardt, Gudis, Hamerla, Park, Tracy.

General Information

The Honors College at the University of Oklahoma provides academically talented students with the opportunity to develop their intellectual potential to the fullest. In addition to the dean and Honors College faculty members, the college also utilizes the best research and teaching faculty from all undergraduate colleges of the university to offer an enhanced curriculum at both the lower and upper divisions. Students in the curriculum can enroll in the small sections (generally 22 or less) of honors-designated general education courses, interdisciplinary Honors classes developed by the Honors faculty, team-taught colloquia, the Oxford University summer program, and independent study and research with faculty in the student's major discipline. The Honors College also encourages active participation in OU’s Study Abroad program and in the Oklahoma Scholar-Leadership Enrichment Program seminars taught by nationally recognized scholars.

The Honors College does not confer a degree; instead, it confers the cum laude designation upon graduation. Students in the Honors College can major in any of the academic disciplines offering undergraduate bachelor’s degrees at the University of Oklahoma. Those who complete the Honors College curricular requirements and achieve a final cumulative grade point average of 3.40 or higher will earn a degree designation of either cum laude, magna cum laude, or summa cum laude. This is the most prestigious undergraduate degree designation attainable at the University and is indicated on both the final transcript and the diploma.

The Honors College also administers a talent-based academic scholarship program for direct-from-high school freshmen, the OU Scholars Program. Qualified applicants are awarded one of five levels of scholarships: Regents Scholar, Award of Excellence, Honor Scholar, Valedictorian Scholar and University Scholar.

Admission

Freshmen entering the University of Oklahoma are eligible to apply to the Honors College Curriculum if:

a. they have an ACT of 29 or higher, or they have an SAT total of 1,280 or higher; and,
b. they rank in the top 10 percent of graduates in their high school class, or have a high school grade point of at least a 3.75.

Transfer students who come to the University of Oklahoma with 15 or more college credit hours and a transfer grade point average of 3.40 or higher are eligible to apply. OU students who have earned 15 or more hours of OU credit and maintained a cumulative GPA of 3.40 or higher are eligible to apply.

Final admission into the Honors College is determined by evaluation of the Honors College application form, which includes a written essay of 400-500 words.

Continued good standing in the Honors College requires an OU Retention/Combined Retention grade point average of 3.40 and progress towards completion of the curricular requirements of the Honors College.

Honors Curriculum

Honors courses are intended to be included in the hours earned toward completion of the student’s undergraduate degree. To graduate cum laude, students must complete at least 12 hours of Honors credit (which includes HON 2973 for freshmen entering Fall 2000 or later), take an Honors colloquium in their junior or senior year, and complete a Senior project (Honors Thesis) by working closely with a faculty mentor in their major field. Many honors students publish their thesis or present their work at professional conventions.

Special Programs

HONORS AT OXFORD

Honors students have the opportunity to spend a summer studying at one of the world’s premier universities. Students begin their studies in Norman and then travel to England, completing the class at Brasenose College, Oxford University. Unlike most American programs at Oxford, our students work in tutorials with distinguished Oxford professors, which has been the method of teaching at Oxford and Cambridge for centuries.
UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM

Each semester the Honors College awards more than $12,000 to undergraduate students and their faculty mentors for research and creative activity. Award recipients and other student scholars present their research at Undergraduate Research Day, an annual conference hosted by the Honors College.

INTEGRATED LIVING-LEARNING ENVIRONMENT

The Academic Arts Community is a housing option for honors students. The academic offices for the Honors Curriculum and the OU Scholars Program are housed in this residence hall. A $3 million renovation added faculty offices, seminar rooms, study areas, a computer lab, a kitchen and TV rooms, and a courtyard to the Academic Arts Community. Non-honors students can contract to live in this residence hall.

HONORS STUDENT ASSOCIATION

All Honors students are members of the Honors Student Association (HSA). The HSA is an advisory group to the Honors Curriculum and is an official student organization at OU. As such, it receives funds from the University of Oklahoma Student Association to sponsor projects of interest to honors students and to the University community at large.

National Fellowships and Scholarships

The Honors College works with honors students to prepare them for such prestigious competitions as the British Marshall Scholarship, the Goldwater Scholarship, the Mellon Fellowship, the Rhodes Scholarship, the Truman Scholarship, the national-level Washington Center Internship Program, and other national competitions. Information and applications for these scholarships and internships are kept in the Honors College Office.

OU Scholars Program

Freshman Scholarship Program

The OU Scholars Program is the largest source of talent-based academic scholarships for direct-from-high school freshmen entering the University of Oklahoma. Qualified applicants are awarded one of five levels of tuition waiver scholarships: Regents Scholar (five-year renewable), Award of Excellence (four-year renewable), Honor Scholar (four-year renewable), Valedictorian Scholar (four-year renewable) and University Scholar (one-year non-renewable). Selection criteria for Award of Excellence, Honor and University Scholars Awards include high school performance (as measured by GPA or class rank) and academic potential (as measured by ACT or SAT scores). Students who receive the Regents Scholar Award must be recipients of the Oklahoma Academic Scholars (OAS) Award from the Oklahoma State Regents for Higher Education. Recipients of the Valedictorian Scholarship must be ranked number one in their class; other criteria include applicant’s ACT or SAT scores.

In order to apply for any of the scholarships, students must complete the Freshman Scholarship Application, found in the Freshman Student Application booklet, and submit it by February 1st. The OU Scholars Selection Committee begins making awards in early November so that students and their families are informed of their awards in a timely fashion.

OU Scholars must maintain full-time enrollment status (12 credit hours) each semester. Students receiving the five-year renewable Regents Scholarship, or one of the four-year renewable scholarships (Award of Excellence, Honor Scholar or Valedictorian Scholar) must maintain a combined retention GPA of at least 2.80 for continuation of the scholarship each year. The GPA is verified by the OU Scholars Program at the end of the spring semester following the freshman year and every semester thereafter. Students who fall below the 2.80 GPA are placed on probation without funding. They have one full academic year from the time they are placed on probation to raise their combined retention GPA to a 2.80. Students who are still below a 2.80 GPA by the end of the probation year lose their scholarships.

SCHOLARS ADVISING PROGRAM

OU Scholars receive specialized advising through the OU Scholars Program during summer pre-enrollment and throughout their freshman year. In addition, the Program provides these services to incoming National Merit, National Achievement, and Phillips Scholars during their freshman year. The academic advisors focus on the concerns and issues of academically talented students. Scholars meet with the academic advisors to plan their course work and obtain information about scholarships, degree requirements, registration procedures, and University policies, and assistance with career exploration, study skills and time management strategies.

SCHOLARS SUMMER ENROLLMENT PROGRAM

Each summer the OU Scholars Program conducts a Scholars Summer Enrollment Program at Honors House during May and June for incoming freshmen OU and National Scholars and their parents. Phillips Scholars enroll on a special Phillips Scholar day in late May. Scholars are assessed, advised, scheduled and enrolled for the fall semester. The program is informal, highly interactive and serves to introduce Scholars and their parents to the University community.

SCHOLARS ORIENTATION

All Scholars participate in an orientation workshop held on the weekend prior to the start of classes in August. The workshop is designed to assist students in making a successful transition from high school to college. Students learn techniques and strategies for managing time and stress, dealing with problems and taking advantage of the cultural activities and student services on campus. The workshop is interactive and participatory, including lectures, discussions and exercises.

Special Scholar Privileges and Programs

EARLY ENROLLMENT PRIVILEGES

OU Scholars are allowed to enroll early in the pre-enrollment periods for the spring semester of their freshman year and the fall semester of their sophomore year. National, Phillips, and Regents Scholars may enroll each of their undergraduate semesters. After their freshman year, Scholars are advised through their degree-granting college or through University College if they have not declared a major.

FREE OU DEPARTMENTAL ADVANCED STANDING EXAMS

The OU Departmental Advanced Standing Exams are offered by various departments at OU to allow a student to earn advanced standing course credit. Fees for the OU departmental advanced standing exams are waived for OU, National and Phillips Scholars. Note that these advanced standing exams are not the same as CLEP exams. OU Scholars must pay to take CLEP exams.

SCHOLARS ADVISORY BOARD (SAB)

SAB is a student advisory group which is open to OU, National and Phillips Scholars. The members advise the OU Scholars Program on enrollment, orientation and advising issues.

Retention Scholarships

Recipients of the University Scholar award and other sophomores who did not receive university-wide four-year scholarships may be eligible to apply for the Alumni, Dr. James L. Nicholson, and the R. Boyd Gunning retention scholarships. These awards are cash scholarships renewable for up to three years. They are awarded by our program to students following the completion of their freshman year at OU. Students who have earned a 3.70 cumulative GPA or above at the end of their Freshman year will be considered for these scholarships. Ten applicants are chosen each summer to receive the R. Boyd Gunning scholarship, thirty to fifty students are awarded the Alumni scholarship, and forty students are awarded the Dr. James L. Nicholson scholarship. Additional information and application forms for these scholarships are available in the OU Scholars Program office March 1. Applications must be received by May 1.
Gaylord College of Journalism and Mass Communication

Copeland Hall, Room 101
Norman, OK 73019-2051
Phone: (405) 325-2721
FAX: (405) 325-7565
Undergraduate Advising Office: (405) 325-5199

Internet: http://jmc.ou.edu; The WIRE: http://wire.ou.edu

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Administrative Officers
Charles C. Self, Ph.D., Dean and Gaylord Chair
Frederick R. Blevens, Ph.D., Associate Dean
Fred K. Beard, Ph.D., Director, Research/Creative Activities
David Craig, Ph.D., Director, Graduate Studies
J. Madison Davis, Ph.D., Director, Curriculum/Instruction

Faculty Roster
Professors: Avery, Beard, Blevens, Chester, Davis, Morton, Self; Associate
Professors Catstarphen, Craig, Gade, Hudson, Nedeljkovich; Assistant
Professors Cecil, Greenwood, Ken, McMillen, Tiemari, Ward, Yoon;
Engleman/Livermore Professor of Community Journalism: Hix; McMahon
Centennial Professor: Shook; Gaylord Chair: Gross.

Degrees Offered
• Bachelor of Arts in Journalism
• Master of Arts
• Master of Professional Writing

DISTINCTION AND SPECIAL DISTINCTION DEGREES
Undergraduate students who complete a Bachelor of Arts in Journalism may be graduated with Distinction if they have completed a minimum of 60 hours at the University of Oklahoma and achieve the required grade point averages. The degree with Distinction will be conferred on students who achieve at least a 3.60 grade point average overall and on the required OU resident work. The degree with Special Distinction requires a minimum 3.80 grade point average overall and on the required OU resident work. The final semester’s grades will be included in the grade point average that determines the Distinction or Special Distinction degree.

History and Purpose
A School of Journalism was first established at the University of Oklahoma in 1913. During the early years, the thrust of the program was to prepare young people for reporting and editing careers in newspapers and magazines. By 1921, the curriculum had expanded to include courses in advertising and newspaper management that were at the forefront of journalism education in the country. The course offerings of the school continued to grow to include radio news in the 1930s. By the late 1950s, courses in professional writing, public relations, and television news had been added.

The School of Journalism was renamed the H.H. Herbert School of Journalism and Mass Communication in 1961. Herbert, the school’s second director, led the school from 1917 to 1945. Under his leadership, the standards of the school were raised, and by 1921 the School became one of only 11 institutions in the United States to meet the requirements for admission to the Association of American Schools and Departments of Journalism. High standards continue with the college's accreditation by the Accrediting Council on Education in Journalism and Mass Communication.
General Information

The Gaylord College of Journalism and Mass Communication is housed in both Copeland Hall and Gaylord Hall located on Van Vleet Oval. The college’s goal is to provide students with the most effective training and preparation possible for careers in every facet of the mass communication industry. This education includes conceptual courses in journalism history, ethics, public opinion, communication law, public relations, advertising; various delivery systems, including print and broadcast; and craft courses in gathering writing, editing, and processing information.

The college holds memberships in The Association of Schools of Journalism and Mass Communication (ASJMC), and the Broadcast Education Association. The college is also the headquarters for the Oklahoma Interscholastic Press Association (OIPA), which is the oldest continuing secondary school press organization in the world.

Programs for Academic Excellence

THE HERBERT-PRIESTLEY RESOURCES CENTER

The Herbert-Priestley Resources Center (HPRC) is located in Copeland Hall, Room 223. The HPRC is one of only a handful of journalism and mass communication libraries in the United States and one of the few privately endowed by a department, school, or college of journalism. Thus, the HPRC operates separately from the OU Libraries but is known and utilized by many administrators, faculty, staff and students outside of the Gaylord College of Journalism and Mass Communication. Officially a non-lending/non-circulating library, the HPRC contains materials pertaining to all programs within the Gaylord College of Journalism and Mass Communication. These include books, videos, popular and pro-trade magazines, journals, major U.S. newspapers, and miscellaneous Oklahoma newspapers. The reference area has materials ranging from MRI product books to the World Almanac to Film Review Index. A separate area contains most of the theses and special projects written by graduate students in the college. There are also various special collections which include histories of journalism and mass communication, as well as past professors’ personal papers. In addition to print materials, there are collections of non-print materials, including CD-ROMs, videos, and motion picture films. The HPRC also boasts a large collection of Oklahoma Newspaper Microfilm, many of which are complete runs.

NEWS 4 NORMAN

News 4 Norman is a live, student-run newscast produced by the College. The newscast is the collective effort of students in the Television News and News Practicum courses offered through the College, with additional input from other journalism courses and the OU School of Meteorology. News 4 Norman airs live at noon on Monday, Wednesday and Friday during the spring and fall semesters on Cox Cable channel 4 in Norman. The newscast is replayed at 5 p.m.

THE WIRE

The WIRE is a student managed cable channel providing music, news, and entertainment programming to the Norman community. The Wire airs on Cox Cable channel 4.

Students may also seek volunteer or paid positions and earn academic credit with News 4 Norman and The Wire, as well as with The Oklahoma Daily newspaper, with the Sooner yearbook, or with KGOU radio.

WORK EXPERIENCES AND INTERNSHIPS

Students are encouraged to supplement traditional classroom experience with on-the-job training, which will often make a positive difference in gaining a professional position. The college’s close location to the professional job market in Oklahoma City provides students with outstanding opportunities for part-time employment with professional communication organizations and departments.

Some journalism and mass communication courses provide campus media experience through coordination with The Oklahoma Daily newspaper, the Sooner yearbook, KGOU radio, the college’s television studios, and The WIRE, a 24-hour cable television channel and multimedia web site.

Juniors and seniors may also participate in the college’s internship program, in which students may gain experience and degree credit in paid or unpaid positions. Students must have at least 75 hours earned and a 3.00 retention grade point average to apply for an internship for credit. Internship application forms are available in the college’s advising office, located in Copeland Hall, Room 115. Students who wish to receive credit for internship experience must obtain permission from the college no later than the end of the first week of the internship. Assistance with securing appropriate intern experience is available through the college’s Director of Student Outreach in Copeland Hall or students may arrange their own internships.

MONDAY MEMO

Monday Memo is the College’s primary way of communicating academic information to our majors. Monday Memo will include drop and add deadlines, withdrawal deadlines, advising schedules, graduation, degree checks, scholarship application deadlines, internships, workshops, college-sponsored job fairs, and other college-related announcements.

Sophomores, juniors, and seniors enrolled in the Gaylord College of Journalism and Mass Communication will receive Monday Memo in their OU e-mail account every Monday morning. If you would like to have your OU e-mail forwarded to another e-mail address, you may do so by going to http://infosev.ou.edu/password.default.cfm. Monday Memo is also posted on the College’s Web site at http://jmc.ou.edu.

STUDENT ORGANIZATIONS

Several organizations are invaluable in developing ties that carry into professional life. These student organizations include:

- AdClub, the advertising society for students interested in advertising sales, media and agencies;
- Society of Professional Journalists (SPJ), for students aspiring to news careers;
- Public Relations Student Society of America (PRSSA), for students interested in public relations as a career;
- Oklahoma University College Broadcasters (OUCB), for students in broadcasting and electronic media;
- Women in Communications Inc.;
- National Association of Black Journalists (NABJ), an organization for African-American students who aspire to careers in mass communication;
- Kappa Tau Alpha (KTA), an honorary scholastic organization for journalism and mass communication students; and
- Native American Journalists Association (NAJA).

SCHOLARSHIPS

Each year, the college awards approximately $100,000 in scholarships, with more than $20,000 reserved for incoming freshmen who demonstrate academic and journalistic promise. Recipients of freshman scholarships usually participate in a scholars’ enrichment program. Transfer students are eligible for all upper-class scholarships. Applications are available beginning December 1 each year.

Undergraduate Study

The Gaylord College of Journalism and Mass Communication offers professionally-oriented undergraduate degree programs in the following fields: advertising, broadcasting and electronic media, journalism, professional writing, and public relations.

Admission

Students who have earned at least 24 semester credit hours with a 2.00 retention grade point average are eligible for admission to the college as pre-journalism majors only. With the exception of the college’s practicum
course, JMC 3011, pre-journalism majors may not enroll in any upper-division journalism and mass communication courses until the following college entrance requirements have been met:

- completion of JMC 1013 (Intro. to Mass Communication) with a grade of C or better,
- completion of JMC 2033 (Writing for Mass Media) with a grade of C or better,
- passing score on the Language Skills Test (LST), the College’s entrance examination,
- a combined retention grade point average of 2.25 on all work attempted, as well as a 2.25 on all work in the major, and
- filing a College Admission Form in the Student Advising Office (Copeland Hall, Room 115).

Once the above requirements have been met, students are eligible to begin taking courses at the upper-division (3000+) level. It is important to note that once fully admitted to the college, they will take four full semesters (excluding summers and intersessions), beginning with a fall semester, to complete any of the journalism and mass communication programs.

Major requirements must be completed in this guided, semester-specific order. Deviation from the guided curriculum will result in delay of graduation. Specific information about the guided curriculum for each undergraduate emphasis is available in the Student Advising Office, Copeland Hall, Room 115.

The college’s degree programs are accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC). The college endorses the philosophy of the council that a broad foundation of knowledge and experience will enhance the professional lives of its graduates. In support of that liberal arts philosophy, the curriculum directs students to divide their studies among the arts, sciences, business and related fields so that 30-40 hours of their degree work are done in the college and at least 90 are taken outside the college. Such a ratio gives students the opportunity to develop specialties in mass communication skills while acquiring the recommended broad liberal arts base.

**LANGUAGE SKILLS TEST (LST)**

A successful score on the Language Skills Test is required prior to enrollment in JMC 2033 (Writing for Mass Media). The LST covers grammar, punctuation and spelling. The test consists of 80 questions that are grouped into four sections:

- Spelling (15 questions)
- Frequently confused words and irregular verb forms (10 questions)
- Identifying parts of speech and parts of a sentence (15 questions)
- General language skills

Study guides for the test are available in the Student Advising Office, Copeland Hall, Room 115. The test is administered weekly throughout the academic year. Please call 325-5199 or 325-5226 for a listing of dates and times. The test may be attempted only twice in an academic year. A third and final attempt may be made during a subsequent academic year. Failure on the third attempt will eliminate the student from consideration as a major in the Gaylord College of Journalism and Mass Communication. Students may access an online study guide for the LST at [http://jmc.ou.edu/lst](http://jmc.ou.edu/lst).

**ADVISING**

The college requires that all students be advised prior to each enrollment period. Majors in the college are advised by the college’s Coordinator of Administrative Student Services in the Student Advising Office, Copeland Hall, Room 115. Advising for the summer session and the fall semester begins in February; advising for the spring semester begins in September. Students are strongly encouraged to maintain current local addresses and e-mail addresses with the university, as important advising and graduation information is distributed each academic term. Students are encouraged to visit the advising office prior to full admission for detailed information about majors within the College, internships, degree programs, minors available through other colleges on the OU campus, enrollment, degree checks, and for academic problems.

**TRANSFER STUDENTS**

The Gaylord College of Journalism and Mass Communication welcomes transfer students from other colleges or universities. The Office of Admissions determines which credits will be accepted from a transferring institution. The application of those credits toward a BA in Journalism and Mass Communication will be determined by the college’s Coordinator of Administrative Student Services. Transfer students must meet with the coordinator prior to their first enrollment at the University. Transfer work is counted as lower-division or upper-division depending on the level at which it was offered at the institution where it was earned. Two-year college work is acceptable only as lower-division credit.

**Undergraduate Degree Requirements**

The responsibility for meeting graduation requirements lies with the student. Students who plan to earn a BA in Journalism in four years must follow the guided curriculum and complete between 32 and 34 semester credit hours per academic year. It is important that students know and understand their degree program requirements. Degree checksheets are available in the Student Advising Office, Copeland Hall, Room 115. Students should also be aware of important academic deadlines, which are printed in the front of the Class Schedule Bulletin each semester. The college encourages all majors to obtain a copy of the Undergraduate Student Handbook, which is available in the Student Advising Office.

A BA in Journalism is made up of the following components:

- **The University’s General Education requirements**
- **General Education requirements specific to the College of Journalism and Mass Communication**
- **Requirements in the major**
- **Requirements in the major support area (advertising majors only)**
- **Electives**

**University-Wide General Education**

Courses used to fulfill these requirements must come from the University-Wide General Education Approved Course List, [www.ou.edu/adm&rec](http://www.ou.edu/adm&rec).

**Core Area I: Symbolic and Oral Communication (9-19 hours, 3-5 courses)**

- English Composition (6 hours, 2 courses),
- Foreign Language (two courses in the same language, 0-10 hours). Satisfied by two years of high school foreign language with grades of C or better, or by demonstrating proficiency in the language through the Department of Modern Language’s Foreign Language Placement Test.

**Core Area II: Natural Science (7 hours, 2 courses)**

At least two courses with three or more credit hours each, totaling a minimum of seven credit hours. The courses must be from different disciplines and at least one course must include a laboratory component, denoted by L.

**Core Area III: Social Science (6 hours, 2 courses)**

U.S. Government and one additional course chosen from the approved general education list.

**Core Area IV: Humanities (12 hours, 4 courses)**

- Understanding Artistic Forms (three hours, one course)
- Western Civilization and Culture (6 hours, two courses), to include HIST 1483 or HIST 1493 (pre- or post-Civil War American History) and one additional western civilization course from the approved general education list,
- Non-Western Civilization (three hours, one course)

**Core Area V: Senior Capstone Experience (3 hours, one course).**

**Gaylord College of Journalism and Mass Communication Requirements**

Courses used to fulfill these requirements must come from the University-Wide General Education Approved Course List, [www.ou.edu/adm&rec](http://www.ou.edu/adm&rec).

**Foreign Language (0-13 hours).** Minimum requirement is one 3-hour course at the intermediate level (courses numbered 2000 or above), or demonstrated competency at that level.
Western Civilization (6 upper-division hours, 2 courses at the 3000+ level). These courses are in addition to the University’s Western Civilization and Culture requirements listed above.

Major Requirements
The college offers five areas of study: advertising, broadcasting and electronic media, journalism, professional writing, and public relations.

ADVERTISING
The Advertising program prepares students for careers in media advertising, in-house advertising departments, and advertising agencies as copywriters, production artists, researchers, account managers, media planner/buyers, and sales representatives.

and mass communication, to include JMC 1013, 2033, 3303, 3333, 3353, The advertising degree requires a minimum of 36 credit hours of journalism 3363, 4331, 4343 (Senior Capstone), and 4813, plus 9 hours of JMC electives. Students are limited to a maximum of 40 hours of JMC major work.

In addition to major requirements, advertising students must also complete major support requirements, to include two courses in economics (excluding ECON 3013), and two courses in marketing (including MKT 3013). Courses used to satisfy major support requirements may not also be used to satisfy general education requirements.

BROADCASTING AND ELECTRONIC MEDIA
Broadcasting and Electronic Media was developed to prepare students for careers in a variety of electronic media fields, including audio and video production, radio and television programming, management, corporate media, and interactive multimedia.

Broadcasting and Electronic Media majors must complete a minimum of 33 (maximum of 40) hours in journalism and mass communication. Required courses include JMC 1013, 2033, 2683, 3622, 3632, 3642, 3663, 4653 (Senior Capstone), and 4813, plus 9 hours of JMC electives. Recommended electives include JMC 3011, 3673, 3800 (2-3 hours), 4103, 4633, 4643, 4663, 4683, 4693, and 4970 (Broadcast Performance).

JOURNALISM
The Journalism sequence is designed to prepare students for the challenges of news gathering, reporting, and management through a variety of delivery systems in the 21st century. This rapidly changing media environment blends traditional print, broadcast, and on-line news delivery. The Journalism sequence produces graduates with a strong grounding in news judgment and critical thinking, coupled with extensive reporting experience in print and electronic form. While technology continues to change, the curriculum is based on the belief that the skills taught and traits inculcated in the curriculum will allow students to succeed in any news environment.

Journalism majors must complete a minimum of 36 (maximum of 40) hours of journalism and mass communication. Specific requirements include JMC 1013, 2033, 3011, 3013, 3622, 3103, 3663, 4013 or 4043 or 4053, 3773, 4803, 4813 (Senior Capstone), and at least 6, but no more than 10, hours from the following list (Students choosing the Community Journalism emphasis must select 6 hours from courses with an asterisk (*): JMC 3011, 3023, 3143, 3683, 3633*, 3703*, 3800*, 3813*, 4013* (if not used to satisfy reporting requirement listed above), 4023*, 4033*, 4043* (if not used to satisfy reporting requirement listed above), 4053 (if not used to satisfy reporting requirement listed above), 4653, 4613, 4673, 4683, 4743, 4833*, 4853, 4883* and 4970.

PROFESSIONAL WRITING
The Professional Writing program prepares students for careers as free-lance authors of books and magazine articles, both fiction and non-fiction.

Professional Writing majors must complete a minimum of 30 (maximum of 40) hours in journalism and mass communication. Specific requirements include: JMC 1013, 2033, 3304, 4573 (Senior Capstone), 4803, 4813, and two courses from 3514, 3534, 4503, 4514, and 4734, plus electives to total at least 30, but not more than 40, hours of journalism and mass communication.

PUBLIC RELATIONS
Students prepare for careers that include writing news releases, designing, writing and producing publications, trends analysis, event planning, crises planning and many other activities that relate to maintaining mutually beneficial relationships with the public.

Public Relations majors must complete a minimum of 36 (maximum of 40) hours in journalism and mass communication. Specific requirements include: JMC 1013, 2033, 3413, 3423, 4343, 4403 (Senior Capstone), 4453, 4803, 4813, a public relations-related elective, plus additional electives to total at least 36, but not more than 40 hours of major work. Recommended electives include JMC 3013, 3303, 3800 (2-3 hours), 3813, 4743, and 4833.

ELECTIVES
The number of elective hours will vary, depending on choice of major, choice of foreign language, and choice of natural sciences in general education. Students entering their junior year should schedule a degree check in the Student Advising Office to determine their remaining hours and a prospective graduation date. The Student Advising Office certifies the completion of graduation requirements.

Rules and Regulations Governing Graduation
At least 130 semester credit hours applicable towards a Bachelor of Arts in journalism degree must be earned. Not all hours acceptable by the University are acceptable towards a BA in Journalism.

At least 60 semester credit hours must be earned at accredited senior (4-year) institutions.

At least 48 semester credit hours must be earned at the upper-division level (courses numbered 3000 or above).

At least 30 semester credit hours must be earned in the major, including at least 15 at the upper-division level.

No more than 40 hours of JMC coursework may be applied to a Bachelor of Arts in journalism degree. If a student pursues a minor in Film and Video Studies, any JMC courses which are applied toward this minor are also included in the maximum number of JMC credit hours allowed.

No more than 16 semester credit hours earned under the Pass/No Pass option will apply toward the degree. P/NP credit may not be used to satisfy general education, college, major, major support, or minor requirements. Transfer credit graded P/NP is counted as part of the 16 semester credit hours earned.

No more than 16 semester credit hours earned in all basic skills courses, including PE activity courses; military courses including Aerospace, Naval Science and Military Science courses; and military in-service experience will apply toward a BA in Journalism and Mass Communication. No more than 4 of the 16 hours may be in PE activity courses. Two credit hours of basic military training may be counted toward the degree when the posting of the credits by the Office of Admissions is in the form of four 1-hour courses as follows: Personal Physical Conditioning, First Aid, Outdoor Skills Practicum and Marksmanship.

No more than 12 semester credit hours earned in all individual study courses, e.g., Independent Studies, any individual study courses which are applied toward this minor are also included in the maximum number of JMC credit hours allowed.

No more than 31 semester credit hours earned by a combination of credit by exam (e.g., CLEP or Advanced Standing Exam) and correspondence courses will apply toward the degree. JMC majors may take general education and elective courses by correspondence, but are not permitted to take journalism and mass communication work by correspondence.

A minimum 2.25 combined retention grade point average in the major, overall, and on the last 60 hours is required to earn a Bachelor of Arts in Journalism degree. With the exception of JMC 3011 (Practicum), a minimum 2.25 is also required to enroll in upper-division journalism and mass communication courses.
Freshmen may not enroll in JMC 2033 (Writing for Mass Media). A grade of C or better is required in each major course, resident or transfer. Students fully admitted to the college may not transfer in any additional upper-division major work. JMC credit which is more than 10 years old may not be applied toward a Bachelor of Arts in Journalism degree unless approval is obtained from the college’s Appeals Board. Students must file an official application for graduation during their final term of enrollment.

Independent Projects
Students who qualify may earn elective journalism and mass communication credit for special projects. Enrollment requires the permission of a supervising faculty member. Generally, permission is given only when the proposed study program does not duplicate material or experiences available in regular offerings of the school.

Interdisciplinary Program in Film and Video Studies
In keeping with the school’s participation in and commitment to the interdisciplinary program in Film and Video Studies, the following JMC courses may be taken by FVS majors without prerequisites: JMC 3011, 3143, 3683, 3703, 3713, 3723, 3733, 3743, 4970, 4103, 4613, 4813, 4683, 4734. 4663, and 4853. In order to receive credit toward graduation, the FVS student must present an advisement form signed by an FVS advisor. FVS majors may enroll in other JMC courses, if they meet all prerequisites. Students who qualify may earn elective journalism and mass communication credit for special projects. Enrollment requires the permission of a supervising faculty member. Generally, permission is given only when the proposed study program does not duplicate material or experiences available in regular offerings of the school.

Master of Arts Degree
All students must complete the following:

- Four core courses: Introduction to Graduate Study, Mass Communication Theory, Introduction to Research Methods, and Thesis/Project Seminar. Thirty hours of graduate work, including the preparation and defense of a thesis (two to four hours of thesis research must be included in these hours) with an overall grade point average of 3.00; or 32 hours of graduate work, including the preparation and defense of a professional project with an overall grade point average of 3.00. Work must be completed within a five year period.
- Twenty-four hours are required in journalism and mass communication courses (26 for project option). Six hours must be completed in a supportive field or fields outside the college. A maximum of 12 hours of G4000-level courses will count toward the M.A. degree (no more than nine of these hours may be in journalism and mass communication). Eight hours of graduate work may be transferred from other universities if such work meets the college’s requirements, but no transfer credit will be accepted toward meeting core requirements.

Master of Professional Writing Degree
All students must complete the following:

- Four core courses: Introduction to Graduate Study in Journalism and Mass Communication, Writing the Novel-Graduate, Writing the Screenplay, and Writing the Commercial Nonfiction Book. Thirty-two hours of graduate work, including the preparation and defense of a professional project (novel, nonfiction book, or screenplay) with an overall grade point average of 3.00. Work must be completed within a five year period.
- Twenty-six hours are required in Professional Writing-related courses. Three to six hours must be completed in a supportive field or fields outside the college.
The International Programs Center (IPC) was created by President David L. Boren in August 1996 with the mission of coordinating and promoting the University’s international activities and programs; enhancing the international content of the curriculum and degree programs; increasing the University’s outreach on international matters in state, national and international arenas; and providing this region of our nation with a greater voice in our country’s international relations. The International Programs Center serves as the supervising and coordinating element for International Academic Programs and the Office of International Relations.

A forum for coordinating research, seminars, conferences and publications on international and foreign policy issues, the center sponsors The Global Forum, a monthly lecture series providing an opportunity for speakers to address international topics. Another important goal of the IPC is to enhance the University’s outreach to business, civic and educational leaders in Oklahoma and the region. These outreach efforts benefit state economic growth and community relations by increasing awareness of international matters and providing intellectual support for international business initiatives and related activities.

The IPC has ties with foreign policy and international relations institutions, such as The Asia Society, The Council on Foreign Relations, the Institute for International Public Policy, the Institute of International Education, the Joint Center for Political and Economic Studies, the Foreign Policy Association, and the World Affairs Council.

The School of International and Area Studies (SIAS) works with colleges and departments across the University to enhance international studies and to develop interdisciplinary curricula. At the center of the School’s academic programs are the B.A. in International and Area Studies and the M.A. in International Studies. Both are interdisciplinary degree programs that prepare students for careers in the fields of international affairs, international business, and international non-profit services. The School is operated jointly by the International Programs Center and the College of Arts and Sciences. SIAS faculty are jointly appointed in the School and another academic department. For more information about the School’s faculty and degree programs, please refer to the complete descriptions in the College of Arts and Sciences chapter of this catalog.

Education Abroad and International Student Services

Millie C. Audas, Ph.D., Director
Old Science Hall, Room 211
Norman, OK 73019
Phone: (405) 325-1607
FAX: (405) 325-7387
Internet: http://www.ou.edu/intprog/

Education Abroad & International Student Services are part of the International Programs Center. Education Abroad coordinates faculty, research and student exchanges with 139 universities in Latin America, Europe, Africa and Asia with which the University has signed agreements of institutional exchange. ISS provides support for all international degree-seeking students and coordinates, in cooperation with the student International Advisory Committee, all cultural and social programs that affect the university’s international committee.
FACULTY TEACHING/RESEARCH PROGRAMS ABROAD

Faculty members may teach and/or conduct research for one semester or a year at the same institutions offering study abroad programs.

Education Abroad

The University of Oklahoma offers a variety of opportunities for students wishing to study abroad. Programs include reciprocal exchanges, OU study abroad, summer and external programs.

Students receive individual counseling for study abroad through the Education Abroad Office. A browsing library containing general information on travel abroad, as well as specific catalogs and fliers is available for student use. The Education Abroad Office will also assist in coordinating enrollment in study abroad programs offered through other institutions.

Students must consult with an academic counselor in their college office to determine the specific application of study abroad credits toward graduation. This should be done in advance of enrollment.

For additional information on the current study abroad programs and information on possible future programs, contact the Education Abroad office at (405) 325-1693. This office is continually developing new opportunities for OU students and provides the most up-to-date information.

Opportunities available to OU undergraduate and graduate students for study abroad include:

RECIPIROCAL EXCHANGES

Students at OU can choose to study at any one of 129 different international universities with which OU has reciprocal exchange agreements. A student participating in one of these exchanges enrolls in a block of course work under a Education Abroad course number and pays OU tuition and fees. Students are responsible for transportation costs and living expenses while abroad. In the majority of cases, students live in university-sponsored housing, and living expenses are comparable to those at OU. Financial aid may be applied to cover the costs of studying abroad, and all credits earned on OU programs are applied to the student’s degree program. Opportunities include a semester or year in the following countries and universities:

ALGERIA
The Algerian Institute Of Petroleum (Boumerdes)

ARGENTINA
Universidad Nacional Del Sur (Bahía Blanca)
Universidad De Buenos Aires

AUSTRALIA
National Institute Of Dramatic Art (Sydney)*
Monash University (Melbourne)

AUSTRIA
Karl-Franzens-Universität (Graz)

BOLIVIA
Universidad Católica Boliviana (La Paz)
Universidad Católica Boliviana (San Pablo)
Universidad Privada De Santa Cruz
Universidad Privada Boliviana (Cochabamba)

BRAZIL
Pontifícia Universidade Católica Do Rio De Janeiro
Universidade Federal Fluminense (Rio De Janeiro)
Universidade Santa Úrsula (Rio De Janeiro)
Universidade Para O Desenvolvimento Do Estado E Da Região Do Pantanal
Universidade Federal Do Rio De Janeiro

BULGARIA
Sofia University

CANADA
University of Calgary

COLOMBIA
La Universidad Nacional De Colombia (Santafé De Bogotá)
Universidad De América (Santafé De Bogotá)
Universidad El Bosque (Santafé De Bogotá)
Universidad Industrial De Santander (Bucaramanga)
Universidad Surcolombiana (Neiva)
Universidad De Los Andes (Santafé De Bogotá)

COSTA RICA
Universidad De Costa Rica (San José)

CROATIA
University of Zagreb

ECUADOR
Universidad San Francisco De Quito

EGYPT
Ain Shams University (Cairo)
Al Azhar University (Cairo)

ENGLAND
Middlesex University (London)
University Of Central England In Birmingham
University of Gloucestershire
University Of Hertfordshire
The University Of Sheffield
The University Of Reading

ETHIOPIA
Mekelle University

FRANCE
Université D’Auvergne (Clermont-Ferrand I)
Université Blaise Pascal (Clermont-Ferrand II)
Université Michel De Montaigne (Bordeaux III)
The Université Montesquieu (Bordeaux IV)
The Université De Nice - Sophia Antipolis
Institut Français Du Pétrole (Rueil-Malmaison)*
Université Des Sciences et Technologies De Lille
Université Joseph Fourier (Grenoble)
Université De Limoges
Université De Montpellier II
Université De Burgundy De Dijon*

GERMANY
Fachhochschule Augsburg
Technische Universität Berlin
Fachhochschule Bingen
Technische Universität Braunschweig
Ruprecht-Karls-Universität Heidelberg
University of Paderborn

GHANA
University Of Cape Coast
University of Ghana, Legon

GREECE
The Studio Entropia Institute (Thessaloniki)

GUATEMALA
Universidad De San Carlos De Guatemala

INDIA
Banaras Hindu University (Varanasi)
Birla Institute Of Technology & Science (Rajasthan)

ISRAEL
Technion University, Haifa
Tel Aviv University

ITALY
L’università Di Salerno
The University of Florence
Università Degli Studi Di Bologna **

JAPAN
Ritsumeikan University (Kyoto)
Ritsumeikan Asia Pacific University (Beppu)
The University Of Electro-Communications (Tokyo)
University Of Yamaguchi

Education Abroad and International Student Services
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<td>Utrecht School of the Arts—Utrecht, Netherlands</td>
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### Medical Exchange Agreements

**Cameroon**
- The University of Yaoundé 1

**Colombia**
- Universidad De Cartagena

**England**
- University College of London Medical School

**France**
- University of Auvergne Faculty of Medicine (Clermont-Ferrand)

**Guatemala**
- Universidad De San Carlos De Guatemala

**India**
- Christian Medical College and Hospital (Vellore)
- Miraj Medical Center (Miraj)

**Japan**
- Kyoto Prefectural University of Medicine (Kyoto)

**Kenya**
- University of Nairobi College of Health Sciences
International Programs Center

NONRECIROCAL OU STUDY ABROAD PROGRAMS

In addition to the reciprocal exchanges, OU students may study abroad through affiliate programs such as CEA, ISA, and IFSA/Butler University. Contact the Education Abroad Office at (405) 325-1693 for additional information on external or affiliate programs.

SUMMER PROGRAMS

OU has a variety of summer options, many of which change from year to year. Anyone interested in summer programs needs to contact the Office of Education Abroad for details.

Journey to China

This program consists of four weeks of study in Kunming, Shanghai, Xi’an, and Beijing focusing on Chinese language, civilization and contemporary economics and politics. All instruction is given in English and students will receive four hours of OU credit. Apply through the Education Abroad Office.

Journey to Prague

The topic of this program changes every year. In the past it has focused on subjects as different as Eastern European conflicts and Introduction to Fine Arts. The week-program includes a field trip to another European city. This group is accompanied by an OU professor.

Summer in Braunsvichweig, Germany

Students take six weeks of German language studies at the Technical University of Braunsvichweig. One year of college-level German or the equivalent required. Apply through the Education Abroad Office.

Summer in London

This is a six-week program to Middlesex University offering 3-6 credits from more than 100 classes in a variety of disciplines.

Summer in Guadalajara, Mexico

This six-credit program offers four weeks of study in Spanish language and Mexican culture at the Universidad Autónoma de Guadalajara. Apply through the Education Abroad Office.

Summer in The Netherlands

Three- to five-week program at Utrecht Universiteit in The Netherlands, focusing on Dutch and European culture. Education Abroad refers students to this partner university for the program.

Summer in Spain

Two-month program in Alcala de Henares. Spanish language, literature and culture courses available. Apply through the Education Abroad Office.

Summer in Japan

One-month intensive introduction to Japanese language and culture through Ritsumeikan University. Apply through Education Abroad Office.

Summer in Italy

Two weeks Intensive Italian at the Comitato Linguistico di Perugia. A three-hour online course taught by Classics is a required component. Apply through the Education Abroad Office.

APPLICATION DEADLINES

Application deadlines for study abroad programs in early March for summer and fall programs and in early October for spring programs. Please contact the Education Abroad Office at (405) 325-1693 for more specific application deadlines.

International Student Services (ISS)

International Student Services has existed at the University of Oklahoma since the 1950’s. The ISS works with more than 1,600 international students from over 100 countries. The office helps international students who need information or assistance regarding arrival matters, housing, immigration concerns, financial, personal or social situations. An international student is defined as any student holding a non-immigrant visa who is undertaking study at The University of Oklahoma.

SERVICES

The ISS office provides the following services:

Pre-Arrival and Arrival Assistance:

• Orientation to the University and the Norman Community
• Housing information
• Visa and transfer information
• Registration information
• Campus organizations
• Certification letters
• Referrals to departments

Personal Assistance

• Cultural adjustment
• Emergency assistance, unscheduled travel home, medical crisis, etc.
• Married student/spouse advisement
• Referrals to Counseling and Testing Services

Financial Assistance

Because OU is a public institution, international students may be eligible for limited financial assistance. The ISS office does assist students in financial matters:

• Scholarships — may require completion of one year at OU before applying

The CEO Cross Scholarships for international students with high scholastic records and financial need.

The Paul and Rose Sharp Scholarship for the international student who demonstrates outstanding academic achievement and leadership.

The Sue Williams Scholarship based on outstanding service.

• Short-term loans in emergency situations
• Information on filing income tax forms with the Internal Revenue Service

Immigration Regulations and Federal Laws

• Departure and U.S.A. re-entry
• Extension of stay
• School Transfers
• Change of visa status
• Employment on/off campus
• Pre and Post-graduation practical training
• Social security assistance

Agency, Foundation, and Sponsor Liaison

International Student Services works cooperatively with International sponsoring Agencies such as the Institute for International Education. ISS also acts as a liaison with various home country and international agency sponsors.

OU Cousins Program pairs new international students with American students to promote friendship and cultural understanding. Many free and entertaining events are planned during the semester for students. Contact the Center for Student Life at 405.325.3163 for more information.

Friends for International Students Program allows OU international students to get to know Norman families and share activities and interests. For information contact the International Student Services Office.

The Friendship International Program is designed for spouses and children of international students and is sponsored by local Baptist churches. The program includes an English conversation course, and craft
or skill classes such as macramé, needlepoint, tennis, sewing, etc. Volunteers provide transportation and childcare. Participation is free.

PROGRAMS

Several organizations have been specifically established to enrich the lives of international and U.S. faculty, staff, and students.

International Advisory Committee is made up of the presidents of all recognized international student organizations and works in cooperation with International Student Services in the planning and implementation of all cultural and social programs that affect the University’s international students. The group meets monthly and attendance by any student at these meetings is encouraged. The committee elects its executive officers every April. There are numerous national and cultural associations which assist International Student Services in helping new students and in promoting cultural exchange between the campus and the Norman community. These groups represent almost every area of the world.

International Leadership Class consists of approximately 30 leaders from within OU’s international student body. The class combines leaders from throughout the international community. Information concerning this class may be obtained from the Center For Student Life.
The College of Law was established in 1909, became a member of the Association of American Law Schools in 1911, and was included in 1923 on the American Bar Association's first list of approved law schools. The College of Law is the only public law school in Oklahoma. It maintains an enrollment of approximately 550 students and offers no part-time or night school course of study.

In 1971, the College of Law became part of the Oklahoma Law Center. The center was established to encourage and facilitate development of programs beyond the normal law school scope. The role of the Law Center is more than training lawyers. It provides a number of professional activities to serve the Bar and the citizens of the state of Oklahoma. These include continuing legal education for lawyers, training of legal assistants, publishing books on Oklahoma law, organized legal research, public service projects, and legal aid services for the needy. It is home to the Law Library.

In 2002, the Law Center building, now named Andrew M. Coats Hall, completed a $19-million dollar expansion, including a new law library with large reading room, high-speed modernized computer labs, private study rooms, and a 250-seat high-tech courtroom. OU Law students now are able to watch live trials and appeals hearings as state and federal courts bring the real world into the Law Center.

OXFORD SUMMER PROGRAM
The College of Law offers a summer program each year at Oxford, England. Courses are offered in a wide variety of legal subjects and meet all ABA and AALS requirements. Credit is granted by the University of Oklahoma College of Law and can be transferred to other law schools in the United States.

CLINICAL LEGAL EDUCATION
The College of Law offers an extensive clinical legal education program which provides students the opportunity to use their legal training to help actual clients with real legal problems. Clinical programs include the OU Legal Clinic (Civil and Criminal), Child Abuse Clinic, and Judicial Clinic.

CODE OF ACADEMIC RESPONSIBILITY
Conduct of law students in the law school is governed by a Code of Academic Responsibility adopted by the student body and promulgated by the faculty. Each student is to abide by the Code, which is represents the ethical standards of the legal profession. Each student is responsible for becoming familiar with the provisions of the Code and will be asked to pledge compliance to the Code during orientation prior to the first year. Those who enter the legal profession must be persons of integrity, meriting at all times the trust of their clients, associates and other members of the Bar.

The College of Law believes that the process of earning such trust cannot await graduation but should begin while the student is pursuing law studies.

ACADEMIC APPEALS BOARD
The College of Law provides an Academic Appeals Board consisting of students and faculty. The board hears complaints from students regarding claims of prejudiced or capricious academic evaluation.

TUITION AND FEES
Tuition and fees for the College of Law are determined by the Oklahoma State Regents for Higher Education. These figures can be found in the “Costs and Financial Aid” section in the front of this catalog.

CAREER SERVICES
The College of Law provides career planning for students through its Office of Career Services. The office is involved in a variety of activities to assist students seeking employment as well as those seeking permanent employment. These activities include training in the job search and interview process and hosting on-campus interviews.

FINANCIAL AID AND SCHOLARSHIPS
All students applying for financial aid should file a Free Application for Federal Student Aid (FAFSA) through the University of Oklahoma Office of Financial Aid Services. Forms may be obtained by contacting the Office of Financial Aid Services, 1000 Asp Avenue, 300 Buchanan Hall, Norman, OK 73019–4085, (405) 325-4521.

Students should begin the application process for financial aid in January each year. The Office of Financial Aid bases priority on the date of application. Law school applicants should also begin the application process in January even though they have not been officially notified of acceptance into the College of Law.

The College of Law has a separate application for scholarships and awards. Students are encouraged to complete the scholarship questionnaire in September of each year.

STUDENT ORGANIZATIONS
There are many student organizations at the College of Law. These include the Student Bar Association and its Board of Governors, Law Student Division of the American Bar Association, Board of Advocates, Organization for Advancement of Women in Law, Association of Public Interest Lawyers, Oklahoma International Law Society, Environmental Law Society, Family Law Society, the Federalist Society, Intellectual Property Society, the Society for Alternative Dispute Resolution, the St. Thomas More Students Law Association, and the Christian Legal Society.

Five minority student organizations are active—Native American Law Student Association, Black Law Student Association, Hispanic-American Law Student Association, Asian-American Law Student Association, and the Coalition of Minorities in Law. Two legal fraternities are active—Phi Delta Phi and Phi Alpha Delta.

INTERSCHOLASTIC COMPETITIONS
The College of Law participates in a variety of interscholastic moot court competitions each year. Each of these competitions involves drafting a detailed legal brief and presenting oral arguments before a panel of judges simulating an appellate court of law. The College of Law traditionally participates in six to eight moot court competitions each year. The College of Law boasts several National Championship Teams in the Frederick Douglas,
National Moot Court, and Thomas Tang National Moot Court Competitions. The College of Law also competes in trial advocacy competitions and legal skills competitions. The trial teams participate in a mock trial competition and advocate their client's position in a district court setting. The legal skills competitions allow the students to simulate actual legal scenarios and are scored on the lawyer's ability to address legal issues and the needs of their clients in competitions involving mediation, negotiation, and client counseling. Additionally, the Board of Advocates, a student organization, coordinates an intra-school moot court competition for first year students.

The College of Law teams were selected as National Champions in the Frederick Douglass competition (1985 and 1987). National Moot Court competition (1986), and Thomas Tang National Moot Court Competition (1995).

Degrees Offered
The College of Law offers only the Juris Doctor degree, the first professional degree in law. The J.D. degree requires 90 semester hours earned during six semesters of full-time residence study.

A student also may earn jointly the J.D. and Master of Business Administration degrees upon completion of 80 hours of law work and the requirements for the M.B.A. degree.

The College of Law and the College of Public Health at the University of Oklahoma Health Sciences Center Department of Health Administration and Policy currently offer five dual degree programs:
- J.D./Master of Public Health in Health Administration and Policy,
- J.D./Master of Public Health in Occupational Health,
- J.D./Master of Public Health in Environmental Management,
- J.D./Master of Science in Environmental Management, and
- J.D./Master of Science in Occupational Health.

This program is designed to offer to students at the College of Law who are interested in a public health law specialty the opportunity to combine into four years of study the three-year J.D. program and a master’s degree program offered by the College of Public Health.

The College of Law also participates in the Generic Dual Degree program offered by the Graduate College. This option allows a law student to obtain a J.D. and, simultaneously seek a master’s degree from another graduate program of his/her choosing.

The number of hours required for each program and the course selections required will differ depending upon the program chosen. Those students who desire more specific information about these programs should contact the admissions office at the College of Law.

The faculty of the College of Law may recommend the awarding of the degree of "Juris Doctor with Highest Honors" to students graduating in the top 5 percent of their class; "with Honors" for students in the top 15 percent; and "with Distinction" for students in the top 25 percent but having not less than an overall grade point average of 8.00. A student must complete all degree requirements within five years from the date of entry into the College of Law.

Admission Process

REGULAR ADMISSION
First year students are admitted only in the fall. Applicants must have a baccalaureate degree prior to matriculation in the College of Law.

Application forms may be obtained by writing: University of Oklahoma College of Law Student Services Office, 300 Timberdell Road, Norman, OK 73019-5081, or can apply online at www.law.ou.edu.

All applicants must take the Law School Admission Test (LSAT), administered by the Educational Testing Service and available by writing for an application and information from: LSAT, Box 2000, Newtown, PA 18940, or via their website at www.lsac.org. Applicants must take the test no later than February of the year in which admission to the College of Law is sought and should indicate on the LSAT application form that their scores be reported to the University of Oklahoma College of Law.

All applicants must also register with the Law School Data Assembly Service (LSDAS).

Each applicant must pay a non-refundable $50 application fee. Applicants are considered individually by the Admissions Committee, composed of three members of the law faculty. Selections are made from the most qualified, with approximately equal weight given to the LSAT score and the undergraduate grade point average. Admission is competitive as applications far outnumber available seats in the first year class.

The Oklahoma State Regents for Higher Education limits the number of nonresidents to 15 percent of the student body and precludes the admission of a nonresident whose qualifications are lower than those of a resident denied admission.

LSAT scores more than three years old will not be considered. When an applicant takes the LSAT more than once, scores will be averaged. However, if the applicant demonstrates substantial improvement on retaking the test and there is an acceptable explanation for poor performance on the prior test, then only the more recent score will be considered. Other facts, such as undergraduate major, improvement in the undergraduate GPA during the last years of study, grade inflation, working while in undergraduate school, and/or graduate work may be considered in reviewing an applicants academic record.

Two letters of recommendation are required. The Admissions Committee does not hold personal interviews for applicants.

Applicants to whom admission is offered will be required to post a $100 non-refundable deposit, which will be applied toward the first semester’s tuition. If the applicant does not enroll in the College of Law, the deposit is forfeited. The offered admission is good only for the semester for which it was granted. A deferment may be granted under special circumstances for one year. The fact that an applicant was admitted in a previous year but did not attend is given no weight in evaluating a subsequent application.

Applicants will be notified when their files are complete. If any information is missing, the applicant will be notified in time to submit the information before the deadline.

The application deadline is March 15. All applicants should be notified of their admission status by May 15.

EARLY ADMISSION
Since the summer of 1975, a special program, Early Admission, allows admission to a select group of applicants whose undergraduate grade point averages and LSAT scores do not meet regular admission standards, but whose records indicate they have overcome some disadvantage (e.g., economic, physical, cultural) and have a probable capacity to succeed in the study of law.

Applicants interested in being considered for Early Admission should follow regular admission instructions and complete the Early Admission Supplemental Application.

TRANSFER WITH ADVANCED STANDING
To be considered for transfer with advanced standing, an applicant must:
1. Be attending an ABA accredited law school.
2. Be eligible to return without probation or other condition to the law school from which transfer is sought and provide the OU College of Law Admissions Office with a letter to that effect from the other law school.
3. Have completed at least one full academic year of work in residence at that school and provide the OU College of Law Admissions Office with an official transcript from that school.
4. Furnish a copy of his/her LSAT/LSDAS report on file at the current law school.
5. Have maintained a scholastic average of C or higher on all law school courses taken elsewhere (only coursework done at an ABA accredited school will be taken into account).

The Application for Admission and the Supplementary Application must be on file in the Law Admission Office on the following dates to start the semester for which admission with advanced standing is sought: June 1 for the fall semester and November 1 for the spring semester. Applicants are considered individually by the Admissions Committee. Admission is not granted automatically upon meeting the above requirements. Great weight is given to the quality of the work taken at the law school from which the
applicant wishes to transfer. Letters of recommendation are not required but may be submitted. Applicants will be notified as soon as a decision has been made.

A student cannot receive credit for work taken in another law school when enrolled at the same time in classes in the OU College of Law. When a student transfers to the College of Law from another school, grades at the other school will not be counted in determining the student’s cumulative grade point average or class standing at the OU College of Law.

Pre-Law Study
The College of Law does not prescribe a fixed course of pre-law study. However, work in written and spoken English, in accounting and economics, in the social sciences, and in many of the humanities is recommended. A pre-law student should take more than merely the required courses in English because proficiency in logical and concise forms of expression is essential to success in the study of law and in the legal profession. The college emphasizes that a broad educational background, involving rigorous mental discipline and the development of a mature viewpoint, is essential for the study of law.

For additional information on pre-law study, a prospective applicant should consult the Pre-Law Handbook prepared by the Law School Admission Test Council and the Association of American Law Schools. This book includes material on the law and lawyers, pre-law preparation, the application process, and the study of law, together with specific information on most American law schools. The Pre-Law Handbook may be obtained from college bookstores or ordered from the Law School Admission Service, Box 40, Newtown, PA 18940.

Persons considering the study of law are invited to seek advice from the College of Law Student Services Office by calling (405)325–4728.

Curriculum

REQUIRED COURSES
Ninety hours of coursework are necessary to receive the J.D. degree. This includes 42 hours of required courses, and 48 hours of elective courses. Required courses are listed below.

FIRST YEAR—Fall Semester

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<tr>
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<td>Contracts I</td>
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<tr>
<td>Constitutional Law</td>
<td>4</td>
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<tr>
<td>Torts I</td>
<td>3</td>
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<td>Legal Research &amp; Writing I</td>
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FIRST YEAR—Spring Semester

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<td>Contracts II</td>
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<tr>
<td>Criminal Law</td>
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<td>Property</td>
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<tr>
<td>Torts II</td>
<td>2</td>
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<tr>
<td>Legal Research &amp; Writing II</td>
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SECOND OR THIRD YEAR

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<tr>
<td>Criminal Procedure I</td>
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<td>Evidence</td>
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<tr>
<td>Upper-Division Elective Menu</td>
<td>6</td>
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UPPER-CLASS ELECTIVE MENUS
In addition to required courses, the faculty has identified certain basic courses that are recommended or desirable for all law students. During the second or third year of study, each student must take at least six electives from a menu of substantive core courses. These include: Administrative Law, Bankruptcy, Individual Income Tax, Conflicts of Laws, Corporations, Family Law, Federal Courts, First Amendment, Introduction to Commercial Law, Real Estate Transactions, Remedies, and Wills and Trusts.

Grades
The grades given in the College of Law and the numerical grade point value are as follows: A+ = 12, A = 11, A- = 10, B+ = 9, B = 8, B- = 7, C+ = 6, C = 5, C- = 4, D+ = 3, D = 2, D- = 1. A few courses are graded on a Satisfactory (S) or Unsatisfactory (U) basis. Students do not have the option of choosing to be graded S/U.

ATTENDANCE
Regular attendance in courses is considered indispensable. Each professor must adopt and announce an attendance policy meeting the requirements of the American Bar Association and the Association of American Law Schools. When a student is absent an excessive number of times, the dean may, on recommendation of the professor, withdraw the student from the course and deny credit or the professor may lower the student’s grade (even to failing) in the course.

The college is a full-time law school, and students are expected to devote substantially all their time to the study of law. Excessive outside work is discouraged; an official interpretation of Accreditation Standard 304(f) of the American Bar Association states that a student may not work in excess of 20 hours per week while attending school on a full-time basis. First year students are urged to forego any substantial outside activities until they have had ample opportunity to measure the demands of legal study upon their time and energy.

EXAMINATIONS
Many students find law school examinations different from those previously encountered. A student must prepare diligently for class and periodically review the materials covered. A single, written examination is ordinarily given at the end of each course. Examination papers are identified only by number, not by name, so that they may be graded anonymously. Often the course grade will be based solely on this examination, although in some courses papers, classroom participation, and/or oral presentations may be considered in determining the course grade.

GRADUATION WRITING REQUIREMENT
Each student is required in their second or third year to satisfactorily complete one rigorous writing requirement prior to graduation. To complete this requirement each student must prepare a scholarly, well-documented and well-written paper or papers that develop a thesis on a legal topic. The paper(s) must be fully researched and supported by authority. To satisfy the Graduation Writing Requirement, the paper(s) must be written under the supervision and approval of a faculty member.

ELECTIVE STUDY AREAS
The faculty of the College of Law believes a student’s legal education should provide a basic, broad and diversified background in substance and procedural law. The faculty also recognizes that students may have an interest in particular areas of law study. To advise students as to which courses would be relevant to particular areas of study, the faculty developed course lists for 12 elective study areas, a recommended list of courses for all students and a list of special interest courses. The elective study areas are:

- Business Practice
- Civil Litigation
- Commercial and Consumer Law
- Criminal Law and Procedure
- Employment Law
- General Practice
- International and Comparative Law
- Natural Resources, Energy and Environmental Law
- Public Law
- Real Estate Law
- Tax Law
- Wealth Transfer
College of Liberal Studies

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Administrative Officers
James P. Pappas, Ph.D., Dean
Trent Gabert, Ph.D., Associate Dean
Susan Smith Nash, Ph.D., Director, Online Curriculum Development
Sandra M. Gannon, B.L.S., Assistant to the Associate Dean
Sue Schofield, M.A., Coordinator, Graduate Programs
Frank Rodriguez, M.L.S., Coordinator, Undergraduate Programs
Robert J. Dougherty, M.L.S., Coordinator, Departmental Computing Systems
Nancee Morris, B.L.S., Coordinator, Recruitment
Diane Harp, M.S., Academic Adviser

Executive Committee of the College
A.F. Al-Assaf, M.D., M.P.H., Associate Professor of Health Administration
R.C. Davis-Undiano, Ph.D., Professor of English
Aimee Franklin, Ph.D., Associate Professor of Political Science
Catherine Hobbs, Ph.D., Associate Professor of English
Michael Mares, Ph.D., Professor/Chairman, Oklahoma Museum of Natural History
Carolyn Morgan, Ph.D., Associate Dean/Associate Professor, Honors College
Susan Sharp, Ph.D., Associate Professor of Sociology
James Thompson, Ph.D., Professor of Zoology
Gordon Uno, Ph.D., Professor of Botany/Plant Science
Mary Jo Watson, Ph.D., Associate Professor of Art
Andrew M. Wood, Ph.D., Assistant Professor of Geography

Mission of the College
The mission of the College of Liberal Studies is to provide the highest quality interdisciplinary education to non-traditional students. The College utilizes its setting within a comprehensive university to enhance students’ skills as lifelong learners, thereby enriching their lives at the personal and professional levels and encouraging them to participate in the work of active citizenship.

Academic degrees and other programs of the College share the common goal of focusing on the study of issues and the examination of ideas from multiple, interrelated perspectives.

The two primary academic programs of the College, the Bachelor of Liberal Studies and the Master of Liberal Studies degrees, maintain interdisciplinary perspectives and flexible innovative approaches to content and procedures. While developed for nontraditional, adult, part-time students, some seminars, colloquia, and conferences of the College also serve students in conventional academic programs and the general public.

General Information

History of the College
The College of Liberal Studies was founded in 1960 by University of Oklahoma faculty members who perceived the need for degree granting programs that could accommodate adult learners. With support from the Center for the Study of Liberal Education for Adults and the Carnegie Corporation of New York, the Bachelor of Liberal Studies program was among the first in the United States designed specifically for adult, part-time students. The first BLS students were enrolled in March 1961. In 1967, the Master of Liberal Studies (MLS) was authorized.

Program revisions and modifications through the years have led to:
- BLS/Self-Paced program, a self-paced independent study program for lower- and upper-division students;
- BLS/Online, a totally online bachelor’s degree program for lower- and upper-division students;
- BLS/Administrative Leadership Concentration, a classroom-based bachelor’s degree completion program for upper-division students;
- MLS, a self-designed, independent study master’s degree program;
- MLS/Health and Human Services, an independent study option for people working in the various professions in the field;
- MLS/Administrative Leadership Studies, a career-focused degree option completed totally online;
- MLS with Museum Studies, an online degree plan designed for working museum professionals.

The College of Liberal Studies is recognized nationally and internationally as a leader in the nontraditional student degree program movement and in continuing, liberal education.

Faculty and Leadership
The College of Liberal Studies has no full-time appointed faculty. Instead, faculty from other colleges of the University of Oklahoma are invited to...
participate in Liberal Studies programs on the basis of their professionalism and commitment to the interdisciplinary, liberal learning goals of the College. Faculty members serve as independent study advisors, as seminar developers and directors, teach weekend courses, direct MLS thesis projects, and assist in the development of new curricula and programs for the College.

Leadership for the College of Liberal Studies is vested in the Dean and an Executive Committee consisting of 11 elected faculty members and two student members. The committee helps the College fulfill its mission by serving in an advisory capacity on matters of program development, operation, and review.

General University Policies

Students enrolled in the College of Liberal Studies are subject to the University of Oklahoma’s general policies, scholastic regulations, and standards as outlined in the University’s General Catalog. Since the University’s policies and procedures are often intended for more conventional academic programs, some may require interpretative flexibility in light of the nontraditional nature of the College of Liberal Studies. Questions concerning policies or procedures should be directed to the College office.

Awards and Recognition

Students and faculty of the College of Liberal Studies participate in recognition and award programs of the University of Oklahoma and the College. The awards are supported through gifts to the University of Oklahoma Foundation. Each fall, a BLS student is recognized as the outstanding senior in the OU Dad’s Association award program. In the spring, an outstanding BLS graduate receives the Jesse E. Burkett Award named for an early College administrator. Likewise, the MLS Academic Achievement Award recognizes an outstanding MLS graduate for exemplary achievement. Also in the spring, a BLS students receives the annual George Henderson Leadership Award for displaying outstanding leadership ability in the BLS/Administrative Leadership program.

Faculty awards include the Kenneth E. Crook Award and the Rufus G. Hall Faculty Achievement Award, both named in honor of faculty founders of the BLS and MLS programs. Faculty are selected for their teaching excellence and meritorious service to the College.

Scholarships

Alumni contributions to The University of Oklahoma Foundation provide several $500 or $250 scholarships each year for BLS and MLS students. The awards recognize enrolled students who are making progress and can be applied to any seminar related expense. Criteria and procedures related to the scholarship awards will be provided to students by the College office.

Alumni contributions also make possible the award of small scholarships ($100-$250) for students just starting their studies with the College. For information on these scholarships, contact the recruitment coordinator at the College of Liberal Studies.

Undergraduate Study

Degree Offered

• Bachelor of Liberal Studies

The College of Liberal Studies offers one undergraduate degree, the Bachelor of Liberal Studies (BLS). Three options exist within the degree program, offering adult learners maximum opportunity to earn the degree: BLS/Self-Paced Independent Study, BLS/Online, and BLS Administrative Leadership On-site. Students may enter the BLS program with any amount of prior college credit and may enter with either lower- or upper-division standing. Each program option leads to the BLS/Degree Completion Program.

BLS DEGREE COMPLETION PROGRAM

As a college dedicated to serving the needs of working adults, the BLS offers a “Degree Completion Program,” which constitutes the last 42 hours of the BLS degree program. Students eligible for the admission to the DCP may be able to complete their BLS degree in as little as 18 months.

Admission to the Degree Completion Program requires a 2.0 retention grade point average on all previously completed coursework, prior completion of all general education requirements, and at least 84 hours of transfer credit with at least 18 earned hours from four-year institution(s). To earn the BLS degree, students must have at least 126 credit hours. Sixty (60) of those hours must be earned from four-year institution(s). At least 42 of the hours must be upper-division (3000- to 4000-) level courses.

INTERDISCIPLINARY STUDIES

Programs offered by the College of Liberal Studies are built on the concept of interdisciplinary studies, a broad-based approach to academic studies, distinctly different from the narrow “disciplinary” approaches offered in more traditional degree programs. Rather than specializing in one particular discipline, Liberal Studies students acquire broad general knowledge in a variety of disciplines. In the social sciences area of knowledge, for example, students approach study topics from the multiple, yet inter-related, disciplines of anthropology, economics, geography, political science, psychology, and sociology.

Students are allowed to “concentrate” in one particular area of knowledge, gaining deeper knowledge and academic skills, culminating in a scholarly and focused study-in-depth.

GRADES IN THE BLS PROGRAM

All BLS options are letter-graded (A-F). Certain seminars and/or directed independent reading courses, however, may be S/U (satisfactory/unsatisfactory) graded. A grade of “S” signifies that work was at the “C” level or better, and is necessary for receiving credit for a course.

PLACEMENT OF NEW STUDENTS

Students enrolled in the College of Liberal Studies are subject to the University of Oklahoma’s general policies, scholastic regulations, and standards as outlined in the University’s General Catalog. Since the University’s policies and procedures are often intended for more conventional academic programs, some may require interpretative flexibility in light of the nontraditional nature of the College of Liberal Studies. Questions concerning policies or procedures should be directed to the College office.

Students may bring credit into the Lower Division from a variety of learning experiences. Credits earned through previous coursework, nationally standardized tests and offers correspondence courses as described in the University General Catalog. Contact the Independent Study office for more information.

Military training and some non-collegiate courses evaluated by the American Council on Education (ACE) may be considered in the College’s advanced placement process. A formal review of past academic work and appropriate transfer work will be completed at the time of admission and after all official records have been received. The student will be notified concerning placement in the program prior to enrollment in the Introductory Seminar.

A formal review of past academic work and appropriate transfer work will be completed at the time of admission and after all official records have been received. The student will be notified concerning placement in the program prior to enrollment in the Introductory Seminar.

Upper-Division

Equivalent to the junior/senior years of traditional programs, admission to the Upper Division requires an Associate of Arts or Associate of Sciences degree, or 60 semester hours and completion of all applicable general education requirements. Upper Division students must have a 2.0 grade point average to be admitted to the College.
Degree Completion Program
Admission to the Degree Completion Program requires a 2.0 retention grade point average on all previously completed coursework, prior completion of all general education requirements, and at least 84 hours of transfer credit with at least 18 earned hours from four-year institution(s). To earn the BLS degree, students must have at least 126 credit hours. Sixty (60) of those hours must be earned from four-year institution(s). At least 42 of the hours must be upper division (junior-senior) level courses.

UNIVERSITY-WIDE GENERAL EDUCATION REQUIREMENTS
General education requirements of the University of Oklahoma may be fulfilled by completing designated BLS courses. Prior to entering the BLS/Self-Paced Upper Division, the BLS/Online, or the BLS/Administrative Leadership On-Site, students are responsible for completing all general education prerequisites. Transcripts of entering students are assessed to determine applicable general education requirements. Students who have more than 60 hours but who have not completed all general education requirements are still eligible for admission to any BLS upper-division option. Contact the College for more information.

For students who initially began and completed at least one credit hour prior to September, 1990, the following four general education courses are required for full admission to the Upper Division: English Composition I, English Composition II, American history, and American government. Students who began their college work after September 1990 enter the BLS under new general education guidelines. Refer to the General Education section of the University’s General Catalog for complete information.

BLS/Self-Paced Independent Study
The Bachelor of Liberal Studies/Self-Paced Independent Study is accomplished by combining self-paced independent study courses with short seminars on campus or online elective courses. Students are guided by faculty mentors through courses that encompass three broad areas of knowledge: humanities, social sciences, natural sciences or administrative leadership. Students also select a “concentration” in one of these areas, completing at least three upper-division courses in their chosen area of knowledge.

Independent study courses consist of directed independent readings, extensive writing and research assignments, and/or completion of study guide questions. Students move through this option at their own pace, either accelerating or delaying completion of course and degree assignments as their schedules allow.

Students in this program option may also fulfill some degree and course requirements by attending short-term seminars on campus. Seminar delivery formats vary throughout the year, with seminars offered on weeknights, weekends, or in intensive day-long sessions over a 5-10 day period.

GOALS OF THE BLS/SELF-PACED PROGRAM
BLS/Self-Paced students gain greater self-awareness and a realization of their potential through the BLS curriculum, which is designed to help each student achieve:

1. A greater ability for self-directed learning;
2. An improved ability in oral and written communication;
3. Knowledge of one's own and other cultures;
4. An historical view of human cultural development-social, intellectual, scientific, artistic and philosophical;
5. Better understanding of the contemporary problems of humanity and of the probable direction and effect of change;
6. Increased understanding of major literary, scientific, and artistic works;
7. An ability to read, interpret, and evaluate the works of scholars and to utilize the methods of inquiry within the broad areas of humanities, natural sciences and social sciences;
8. Understanding of the humanities, natural sciences, and social sciences in sufficient depth and breadth to enable one to perceive relationships among these broad areas of knowledge.

BLS/Online
The BLS/Online option is a curricular alternative to the BLS/Self-Paced program. Courses in the BLS/Online are offered in eight-week modules. Students in this option may choose to carry two courses the first eight weeks and two courses the second eight weeks of the semester. Doing so allows the student to make full-time progress (12 hours each semester) toward completion of the degree.

The BLS/Online option is open to Upper and Lower Division students. Like the BLS/Self-Paced, students complete significant independent study curricular assignments, but they do so in an online environment. Unlike the BLS/Self-Paced, students in the BLS/Online option must complete independent study units within the eight-week time frame.

The BLS/Online offers students an opportunity to participate in a new and exciting kind of learning: Internet learning. Curricular material is delivered to BLS/Online students over the Internet. Students complete reading and writing assignments enhanced by research conducted on-line. Written assignments are submitted and returned via e-mail or an online course management system such as Blackboard.

Although students must complete enrollments within an 8-week time frame, study completed during the course is asynchronous. Students can complete the study assignments at times that are convenient to their work and family schedules. There are no requirements for synchronous on-line chatroom or online virtual classroom presence.

Like the BLS/Self-Paced, the BLS/Online program follows a philosophy of interdisciplinary study. Curriculum within the study units is not delineated along traditional academic disciplines, but rather requires students to take broad ranging approaches from multiple disciplinary perspectives. The goals of the BLS/Online are the same as the goals of the BLS/Self-Paced program.

Students in the BLS/Online option may choose to attend seminars on campus alongside BLS/Self-Paced students. The thematic approaches of these seminars are designed to augment learning conducted in the Internet guided study units. Enrollments and admission criteria for the BLS/Online are the same as the BLS/Self-Paced program.

BLS/SELF-PACED AND BLS/ONLINE DEGREE REQUIREMENTS

<table>
<thead>
<tr>
<th>Lower-Division</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 1003, Introductory Seminar</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 1213, Creativity in the Arts (Humanities)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 1223, History of the United States (Humanities)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 2213, Prehistory to Renaissance (Humanities)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 2223, Renaissance to Modern World (Humanities)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 1313, What is the World are Social Sciences? (Soc Sci)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 1323, Governing Ourselves (Soc Sci)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 2313, The Human Experience: Role of Culture (Soc Sci)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 2323, Human Groups &amp; Distribution of Resources (Soc Sci)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 1413, Mathematics in Liberal Studies (Natural Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 1423, Physical Sciences (Natural Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 2413, Life Sciences (Natural Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 2423, Science as a Process (Natural Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>Three courses in each of the following:</td>
<td>18</td>
</tr>
<tr>
<td>LSTD 2700, Special Topics in Liberal Studies</td>
<td>(9)</td>
</tr>
<tr>
<td>LSTD 2800, Investigative Studies</td>
<td>(9)</td>
</tr>
<tr>
<td>Foreign Language Requirement (must be completed</td>
<td></td>
</tr>
<tr>
<td>outside college)</td>
<td>0-10</td>
</tr>
<tr>
<td>Two courses in the same foreign language</td>
<td>0-10</td>
</tr>
<tr>
<td>Lower-Division Total (depending on General Educ.)</td>
<td>57-67</td>
</tr>
<tr>
<td>Gap Up Electives</td>
<td>18-27</td>
</tr>
</tbody>
</table>

These are transfer credit electives that may include credit for extra-institutional learning (CLEP, military hours, ACE credit). At least 18 of these hours must be earned at four-year institutions. Students may complete these hours in the College of Liberal Studies by attending 6-credit-hour seminars onsite, or by selecting online elective courses.

Degree Completion Hours (required)

| Degree Completion Hours (required) | |
| LSTD 3503, Interdisciplinary Inquiry | 3 |
| LSTD 3953, Study in Depth Prospectus | 3 |
| LSTD 3233, Humanities of the Ancient World (Humanities) | 3 |
BLS/AL On-Site Curriculum

Effective team work and team management are an essential part of the BLS/AL On-Site curriculum, and students receive instruction in current theories and practices of organizational leadership. In addition, students gain a broad, liberal education through interdisciplinary studies in three areas of knowledge: humanities, natural sciences, and social sciences. A strong component of ethics studies in the three areas of knowledge is included in the BLS/AL On-Site curriculum.

Classes in the BLS/AL On-Site are scheduled to accommodate working adults. Weekend classes meet Tuesday and Thursday (or Monday-Thursday) for four hours each night. Students and instructors may also meet at arranged times for informal class sessions or advisement. BLS/AL On-Site students complete the following courses:

<table>
<thead>
<tr>
<th>At On-Site Curriculum</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 3503, Interdisciplinary Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3953, Study in Depth Prospectus</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3233, Humanities of the Ancient World (Humanities)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3243, Humanities of the Modern World (Humanities)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3333, Human Arrangements (Social Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3343, Challenges in a Changing World (Social Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3433, The Dynamic Universe (Natural Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3443, Ecology and Evolution (Natural Sciences)</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3613, Leadership in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 3623, Conflict Resolution</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 4633, Cultural Diversity in the World</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 4700, Advanced Topics in Liberal Studies</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 4800, Investigative Studies in Liberal Studies</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 4953, Study in Depth</td>
<td>3</td>
</tr>
</tbody>
</table>

**BSL/AL ON-SITE TOTAL—** 42

Graduate Study After BLS Degree

The BLS satisfies the baccalaureate degree requirement for admission to the Graduate College of the University of Oklahoma and other graduate institutions. Some graduate programs may require the completion of specific courses for full graduate standing in the major and/or minor fields of study. It is important to inquire and learn of specific requirements before making application to a graduate program.

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Graduate Study

Degree Offered

- **Master of Liberal Studies**

Like all graduate programs at the University, the Master of Liberal Studies is a program administered by the University of Oklahoma Graduate College. To be eligible for admission to the MLS, students must have an earned bachelor's degree from a regionally accredited institution of higher learning and must meet other admission requirements as mandated by the graduate program.

There are several program options in the 32-credit hour Master of Liberal Studies degree, all of which share core interdisciplinary courses and have the same program completion requirements. All MLS program options emphasize interdisciplinary liberal learning that develops analytical and critical skills as well as communication skills.

- **MLS/Self-Design**—a program option combining core courses with individualized content for those individuals who want to study a unique topic from multiple perspectives to further career or personal goals.
- **MLS/Health and Human Services**—pre-designed curriculum combining core and option-specific content for people who want intensive, interdisciplinary learning for career advancement in the health and human services fields.
- **MLS/Administrative Leadership**—an online program option with pre-designed curriculum combining core courses with a series of courses focused on the principles of leadership and their application to the workplace.
MLS/Museum Studies—an online program option with pre-designed curriculum combining core courses with a series of museology courses for individuals active in museum and related fields. Students must have access to a museum to meet some of the program requirements. All MLS options emphasize interdisciplinary, liberal learning and are designed for students who want graduate-level study that allows them to bring together their practical experience and formal learning. This degree is ideally suited for the person who has reached a certain level of achievement, community responsibility, or professional standing but who wants additional education to enhance analytical thinking, critical judgment, and informed decision making.

MLS/Self-Design

In this degree program, students design an individualized, interdisciplinary course of study with faculty mentors. MLS students integrate topics of study from the humanities, social sciences, or natural sciences. For advisement about study options, call the College of Liberal Studies.

The success of MLS students has shown that virtually any topic can be channeled through the interdisciplinary approach of the program. MLS students have studied such diverse topics as the role of television in political campaigns, the status of women in antiquity, management and business theories in transition, ethno-history of American Indians, developments in American literature and culture, international politics, changes in the technology of weather prediction, 18th-century English landscape art, and the human genome project.

Students in the MLS Self Design program progress at a self-determined pace. Independent study enrollments within the MLS/SD are for one year with extensions possible. Students have up to five years to complete the degree program. All courses other than required core interdisciplinary courses are “Satisfactory/Unsatisfactory” graded.

PROGRESS THROUGH THE MLS/SELF-DESIGN

Students earn the MLS/SD degree option by completing several independent directed reading enrollments, by attending three brief, intensive seminars at the OU campus, and by completing a thesis or non-thesis option at the end of the program. MLS/Self Design students complete the following courses:

**MLS/SD Curriculum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5003</td>
<td>Introduction to Graduate Interdisciplinary Study</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5013</td>
<td>Interdisciplinary Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Interdisciplinary Study:** a total of nine hours from the following (each may be repeated up to nine hours): 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5213</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5313</td>
<td>Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5413</td>
<td>Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5903</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5904</td>
<td>MLS Colloquium</td>
<td>4</td>
</tr>
<tr>
<td>LSTD 5931</td>
<td>Prospectus</td>
<td>1</td>
</tr>
</tbody>
</table>

One of the following completion options: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5940</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td>LSTD 5950</td>
<td>Internship</td>
<td>6</td>
</tr>
<tr>
<td>LSTD 5980</td>
<td>Master’s Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Coursework</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>LSTD 5543</td>
<td>MLS Advanced Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CUMULATIVE HOURS—** 32

Optional courses with variable credit:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5590</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5790</td>
<td>Advanced Topics in Interdisciplinary Studies</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5960</td>
<td>Directed Readings in Interdisciplinary Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

MLS/Health and Human Services Option

The MLS/Health and Human Services Option provides a broad-based perspective of the health care and human service delivery systems, and is not designed to provide primary professional preparation. Students selecting this option must have a prior training and/or work history in an applicable area for job entry. This option is intended to serve as a mechanism for professional advancement by enhancing the student’s competency level and expanding his/her knowledge base.

**PROGRESS THROUGH THE MLS/HHS**

The Health and Human Services option is a variation of the self-design option in that it combines independent study with three brief, intensive on-campus seminars, and completion of a thesis or non-thesis option.

Students in the MLS/HHS program progress at a self-determined pace. Independent study enrollments within the MLS/HHS are for one year with extensions possible. Students have up to five years to complete the degree program. All courses other than required core interdisciplinary courses are “Satisfactory/Unsatisfactory” graded. MLS/Health and Human Services students complete the following courses:

**MLS/HHS Curriculum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5003</td>
<td>Introduction to Graduate Interdisciplinary Study</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5013</td>
<td>Interdisciplinary Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Interdisciplinary Study:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5413</td>
<td>Ethics in HHS</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5413</td>
<td>Current Issues in HHS</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5413</td>
<td>Cultural, Social &amp; Behavioral Issues in Health</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5903</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5904</td>
<td>MLS Colloquium</td>
<td>4</td>
</tr>
<tr>
<td>LSTD 5931</td>
<td>Prospectus</td>
<td>1</td>
</tr>
</tbody>
</table>

One of the following completion options: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5940</td>
<td>Research Project</td>
<td>6</td>
</tr>
<tr>
<td>LSTD 5950</td>
<td>Internship</td>
<td>6</td>
</tr>
<tr>
<td>LSTD 5980</td>
<td>Master’s Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Coursework</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>LSTD 5543</td>
<td>MLS Advanced Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CUMULATIVE HOURS—** 32

Optional courses with variable credit:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5590</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5790</td>
<td>Advanced Topics in Interdisciplinary Studies</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5890</td>
<td>Investigative Interdisciplinary Studies; LSTD 5960</td>
<td>3</td>
</tr>
</tbody>
</table>

MLS/Administrative Leadership Option

The MLS/Administrative Leadership is an online program which students complete through Internet courses that combine traditional readings with web-based readings. The program focuses on the practices and knowledge bases needed to be a successful administrator in today’s workplace. Students explore both the theoretical aspects of leadership and applied practices. Combining the knowledge of specific, work-related principles with the mind-set of a liberal education allows students to approach new ideas, projects, and challenges by drawing upon multiple perspectives.

**PROGRESS THROUGH THE MLS/AL**

The online MLS/AL is a program allowing students to determine the study time which best fits their schedule. All assignments are sent via email and any group activities are conducted through the Internet. The MLS/AL online courses are semester-based enrollments and students receive letter grades. MLS/Administrative Leadership students complete the following courses:

**MLS/HHS Curriculum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5003</td>
<td>Introduction to Graduate Interdisciplinary Study</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5013</td>
<td>Interdisciplinary Foundations</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5623</td>
<td>Theories of Management &amp; Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5633</td>
<td>Cultures of Organizations</td>
<td>3</td>
</tr>
<tr>
<td>LSTD 5643</td>
<td>The Individual and Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>
LSTD 5654, Ethics and Leadership ........................................... 4
LSTD 5663, Perspectives on Leadership ................................. 3
LSTD 5903, Research Methods ............................................. 3
LSTD 5931, Prospectus ......................................................... 1

One of the following completion options: ........................... 6

- LSTD 5940, Research Project ........................................... (6)
- LSTD 5950, Internship ....................................................... (6)
- LSTD 5980, Master’s Thesis ............................................... (6)
- Advanced Coursework ..................................................... (6)

TOTAL CUMULATIVE HOURS — 32

Optional courses with variable credit:
LSTD 5590, Special Topics; LSTD 5673, Special Problems in Leadership; LSTD 5790, Advanced Topics in Interdisciplinary Studies; LSTD 5890, Investigative Interdisciplinary Studies; LSTD 5960, Directed Readings in Interdisciplinary Studies

MLS/Museum Studies Option

The MLS/Museum Studies is an online program although there are several opportunities for students to study on the OU campus for brief periods if they choose. The option serves the career-development needs of individuals who work in museums and related institutions. Those initially trained in museum work and those coming into the profession from other disciplines get a focused, integrated approach to museum studies with practical application for the various dimensions of museum work. Interaction with other museum professionals and faculty members affords perspectives from various institutional settings, adding to the knowledge base of each student.

PROGRESS THROUGH THE MLS/MS

The MLS/Museum Studies is an online program that students complete through Internet courses which combine traditional readings and research with web-based materials. All assignments are sent via email and any group activities are conducted on the Internet. The MLS/MS option courses are semester enrollments and letter-graded. MLS/Museum Studies students complete the following courses:

<table>
<thead>
<tr>
<th>Museum Studies Curriculum</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses - 21 hours</td>
<td></td>
</tr>
<tr>
<td>LSTD 5003, Introduction to Graduate Interdisciplinary Study .......... 3</td>
<td></td>
</tr>
<tr>
<td>LSTD 5013, Interdisciplinary Foundations .................................. 3</td>
<td></td>
</tr>
<tr>
<td>LSTD 5523, The World of a Museum ........................................... 3</td>
<td></td>
</tr>
<tr>
<td>LSTD 5560, Museum Project .................................................... 2</td>
<td></td>
</tr>
<tr>
<td>LSTD 5903, Research Methods ................................................. 3</td>
<td></td>
</tr>
<tr>
<td>LSTD 5931, Prospectus .......................................................... 1</td>
<td></td>
</tr>
<tr>
<td>\textbf{One of the following} completion options: ....................... 6</td>
<td></td>
</tr>
<tr>
<td>- LSTD 5940, Research Project ........................................... (6)</td>
<td></td>
</tr>
<tr>
<td>- LSTD 5950, Internship ....................................................... (6)</td>
<td></td>
</tr>
<tr>
<td>- LSTD 5980, Master’s Thesis ............................................... (6)</td>
<td></td>
</tr>
<tr>
<td>- Advanced Coursework ....................................................... (6)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Museum Studies Electives - 11 hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD 5553, History &amp; Architecture of Museums ................................... 3</td>
<td></td>
</tr>
<tr>
<td>LSTD 5563, Museum Management &amp; Leadership .................................... 3</td>
<td></td>
</tr>
<tr>
<td>LSTD 5570, Special Problems in Museology ....................................... 2-4</td>
<td></td>
</tr>
<tr>
<td>LSTD 5573, Museums, Cultures, &amp; Communities .................................. 3</td>
<td></td>
</tr>
<tr>
<td>LSTD 5583, Collections Management ............................................. 3</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CUMULATIVE HOURS — 32

Optional courses with variable credit:
LSTD 5590, Special Topics; LSTD 5790, Advanced Topics in Interdisciplinary Studies; LSTD 5890, Investigative Interdisciplinary Studies; LSTD 5960, Directed Readings in Interdisciplinary Studies

Students and graduates of the MLS museum programs work in art galleries, natural history museums, historical museums and societies, military museums, zoos, park and recreation facilities, and private collections. They have various responsibilities such as curatorship, exhibit management, fund raising, administration, education, conservation, and public relations.

THESIS AND NON-THESIS OPTIONS

Students in the MLS options may elect to complete either a thesis or a non-thesis option at the end of their program of study. In the thesis option, students carry out research, write a thesis which they defend before a committee of three faculty members. In the non-thesis option, students select a research project or an internship to complete the program, and take a comprehensive examination over their course of study. A third non-thesis option requires a student to take six hours of advanced coursework related to his/her topic of study. There is a written comprehensive examination in this option.

GOALS OF THE MLS

The program is designed to help a student gain:
1. Greater openness to new ideas and possibilities.
2. Enhanced skill to pursue major problems or themes through the interrelationships that connect disciplines to each other.
3. A higher level of competence in the evaluation of information, ideas, opinions, and value systems.
4. Increased effectiveness in applying theoretical knowledge and understanding to professional situations.
5. An enhanced capacity for creative thinking.
7. Improved ability in oral and written communications.
8. The ability to function and thrive in a rapidly changing society.

ADMISSION

Admission to the MLS program requires that students apply for and be admitted to the Graduate College of the University of Oklahoma and the College of Liberal Studies.

Regular admission to the Graduate College requires a baccalaureate degree from an accredited institution with an undergraduate grade-point average of 3.0 on a 4.0 scale on the last 60 hours of undergraduate work. (In the case of a BLS degree, an “S” in course work is accepted in lieu of grades.) All prior graduate-level work will be considered. The grade point average on graduate work must be 3.00 or above.

“Conditional” admission may be considered if the grade-point average is below but close to 3.0. The College reviews the total CLS application package, including applicant essay, to determine admissibility to the program with a low grade point average.

The College of Liberal Studies must receive all application materials and official transcripts from all colleges and universities previously attended before the admission procedure can begin. All these materials should be submitted directly to the College of Liberal Studies. The admissions process begins after the OU and supplemental MLS applications, transcripts, application essay, résumé, and application fee of $25 are on file in the College. Admitted applicants will receive notification of admission and registration information concerning the next scheduled introductory course for their selected option. Upon admission to the College, applicants have up to one year to enroll. Applicants should complete the admission process at least six weeks prior to the anticipated first enrollment.

The College reserves the right to cancel any course two weeks prior to the starting date if there is not sufficient enrollment.

GRADES IN THE MLS

Students in the MLS options will receive letter grades for some enrollments, and S/U grades for others. Grades are “S,” for Satisfactory, and “U,” for Unsatisfactory. For graduate students an S grade is given for work at the level of B or better. For more information, contact the College.

General Information About the College Of Liberal Studies
The University of Oklahoma
College of Liberal Studies
1610 Asp Avenue
Norman, OK 73072-6405
Phone: 405-325-1061; Toll-free: 800-522-4389; Fax: 405-325-7132
e-mail: cls@ou.edu

Applications and official transcripts should be mailed directly to the College of Liberal Studies at the address listed above. The official application includes instructions for supplemental written statements that will be included in the application folder. If necessary for admission review, the admission committee may request additional information.

Specific criteria required for admission review are as follows:
1. The admission process will begin after a complete application folder has been assembled at the College.
2. A complete application folder includes the OU application and CLS supplemental application forms, the appropriate application fee, official transcripts from each institution attended.
3. All application materials will be considered in the admission process.
4. Registration information concerning the next scheduled Introductory Seminar will be sent to admitted applicants along with notification of admission.

APPLICATION DEADLINES
Introductory Courses are held at the beginning of each semester, and the College follows application deadlines as printed on the OU application. Application for admission to the College of Liberal Studies can be made at any time of year, and students are encouraged to apply as early as possible to complete the admission process well in advance of anticipated attendance at an Introductory Seminar. The application is accompanied by supplemental materials described on the application form and in the section above. Official transcripts from all previously attended institutions must be provided to complete the application folder.

FEE STRUCTURE AND PAYMENT
The application fee should accompany the application for admission and should be sent directly to the College of Liberal Studies. In both the Bachelor and Master of Liberal Studies programs, course fees and tuition are paid through the University of Oklahoma Office of the Bursar. Payment options are available and will be described on the bill students receive from the Bursar. For other information, contact the Bursar at 405-325-3121.

RESIDENT/NONRESIDENT STATUS
Fees are based upon a student’s status as a resident or nonresident of the State of Oklahoma. Students are usually considered residents if they meet the following general criteria: a) they have lived in Oklahoma for a period of 12 months and have not been attending school; b) they have recently married an Oklahoma resident; or c) they have recently moved into Oklahoma to work full-time.

Students stationed in Oklahoma during full-time military service will not be considered Oklahoma residents but will be admitted under the resident fee schedule. This also applies to spouses and children of those stationed in full-time military services in Oklahoma. The final determination for resident status is made by the University’s Admissions and Records office.

ENROLLMENT AND STATUS
Admission status is effective for one year and the student may elect to attend any Introductory Seminar. If an admitted applicant does not enroll within one year, an application for readmission must be filed.

REFUND POLICY
A student withdrawing completely from a College of Liberal Studies program may be entitled to a refund. Contact the College for the refund policy of each program option.

TUITION ASSISTANCE
University scholarships are generally not available to Liberal Studies students, although some loan programs are accessible to qualified individuals. It takes a minimum of four months to process financial aid materials; therefore, the process to apply for financial aid should begin approximately six months prior to the desired Introductory Seminar. For information concerning any financial aid matter, contact The University of Oklahoma Office of Financial Aid Services, 731 Elm, Norman, OK, 73019-2111, or telephone (405) 325-2929.

Several federal, state, and local government agencies provide tuition assistance and other support for selected personnel. Likewise, many business and industrial corporations have educational assistance programs available for their employees. Prospective Liberal Studies students are urged to explore these types of assistance. Those who receive financial support must see that necessary authorization is forwarded to the College of Liberal Studies. Students are responsible for knowing and meeting any criteria in respect to their enrollment status and their financial support.

OTHER EXPENSES
In addition to program fees and tuition, students will be responsible for obtaining their books and study materials. Students will also assume responsibility for travel and living expenses associated with attending seminars as well as any material or field trip fees.

VETERAN’S BENEFITS
Veterans and their dependents eligible for education assistance in the College of Liberal Studies can receive reimbursement for tuition and fees. The students make payments to the University Bursar’s Office at the appropriate times, and the Veterans’ Administration payments are sent directly to the student. The veteran should contact a local VA office to obtain the appropriate form, either 22-1995 or 22-1990, which should be forwarded with the application materials. The College of Liberal Studies will certify eligibility and enrollment to the VA office.

UNIVERSITY HOUSING AND FOOD SERVICE
Students attending seminars who require housing may stay in facilities available at the Oklahoma Center for Continuing Education (OCCE). The range of housing accommodations varies from conventional hotel services to private or shared facilities. Food and other services are available in the campus vicinity. Residence at the University is not required but is encouraged in order to facilitate association with other students and closeness to the Bizzell Memorial Library and other facilities and services.

For more information concerning housing facilities and to make housing reservations, contact: OCCE Housing, 1700 Asp, Norman, OK 73037-6400, or telephone (405) 325-1011.

UNIVERSITY SERVICES AND OPPORTUNITIES
College of Liberal Studies students have the same rights and responsibilities as other University students with respect to participation in most University programs and services such as the Scholar-Leadership Enrichment Program, athletic events, museums, cultural and other activities. Some services for which conventional students pay an activity fee, such as the Goddard Health Center and the Huston Huffman Center, will be available to Liberal Studies students for a use or service charge.

GRADUATION
Students will become a candidate for the Bachelor of Liberal Studies degree or Master of Liberal Studies degree upon completion of all requirements. Degrees are conferred at University graduation dates in August, December, and May. Commencement ceremonies are held in May and December.
# Reserve Officers Training Corps

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## Department of Aerospace Studies

Col. James C. Strawn, Professor and Chair  
171 Felgar Street  
Norman, OK 73019-1041  
Phone: (405) 325-3211  
FAX: (405) 325-1776  
Internet: [http://www.ou.edu/rotc/air-force/](http://www.ou.edu/rotc/air-force/)  
e-mail: afrotc675@ou.edu

The Air Force Reserve Officer Training Corps (ROTC) program at OU, rated in the top 10 percent of all AFROTC programs in the entire nation, offers men and women the opportunity to earn a commission as an Air Force officer while they complete their requirements for a bachelor’s degree. Interested students may “try out” Air Force ROTC without any obligation or commitment. Any student completing the entire program will earn a minor in aerospace studies.

The cornerstones of the program are the Air Force Core Values of Integrity, Excellence, and Service Above Self. Within the framework of these values, students will learn about the profession of arms, Air Force history, management, leadership techniques, and national security issues. An emphasis on communication skill development permeates the entire program.

Because of the complex systems Air Force officers operate and manage every day, the Air Force needs students with technical degrees. Ultimately, however, the Air Force is looking for quality individuals in any major who aspire to the Air Force Core Values.

Students interested in a challenging and rewarding opportunity to work with some of our nations best young men and women should visit or call the Department.

You may also contact us via e-mail at afrotc675@ou.edu, or our homepage at [http://www.ou.edu/rotc/air-force/](http://www.ou.edu/rotc/air-force/).

### The Air Force ROTC Program

In addition to the traditional four-year program, Air Force ROTC offers programs for students at almost any point in their college career, including graduate students. Call the Department of Aerospace Studies to see if you qualify for admission.

#### GENERAL MILITARY COURSE (GMC)

The General Military Course (GMC) consists of four Air Force ROTC courses and concurrent enrollment in a laboratory section. Each course is one semester hour of credit. Normally, one course is taken each semester of the freshman and sophomore years; however, all four courses can be completed during the sophomore year with permission of the Department Chair.

### FIELD TRAINING

You will attend four or six weeks of field training at a designated Air Force Base, normally between your sophomore and junior years. Field training is rigorous and will stretch your limits. It includes physical conditioning, weapons training, and survival training, plus many opportunities to learn leadership skills that will be invaluable to you throughout your career. The Air Force will pay for your travel to summer camp, and you will be paid for the time spent in camp. After this camp, you will become a member of the Professional Officers’ Corps (POC).

#### OFFICER COURSE (POC)

The Professional Officer Course (POC) consists of two full academic years and the successful completion of four upper-division courses. Admission to this program is restricted to full-time students with at least junior standing. Entry into the Professional Officer Course is competitive and requires the approval of the Professor of Aerospace Studies. Upon completion of entry requirements, students are enlisted in the inactive Air Force Reserve and agree to accept a commission as a second lieutenant subsequent to their graduation from the University. All students enrolled in the Professional Officer Course receive between $350 and $400 per month during the academic year.

#### Scholarships

An AFROTC scholarship offers you something no other scholarship does—a job in your chosen career field immediately after graduation. The objective of the AFROTC scholarship program is to attract highly qualified men and women who demonstrate dedication, willingness to accept responsibility, creative thinking and the ability to communicate with clarity and precision. Scholarships are available in lengths of 4, 3, and 2 years. The scholarships are awarded on a nationally competitive basis to students who meet the age and academic requirements. AFROTC scholarships pay some or all costs of tuition, enrollment fees, incidental fees, and a book stipend. Scholarship students also receive between $250 and $400 per month (tax free) during the academic year.

#### HIGH SCHOOL SENIORS OR GRADUATES

Competitive scholarships are available to high school seniors and high school graduates not enrolled full-time in college. Although the Air Force needs engineering, mathematics, computer science, meteorology, physics and nursing majors, many scholarships are also available to those who enroll in non-technical degree programs. Students must apply for scholarships online at [www.afrotc.com](http://www.afrotc.com).

Packages must be completed before December 1 of your high school senior year; early application is to your advantage. Selection boards convene periodically between July and April. Scholarship applications will be evaluated in the following areas:
• SAT or ACT scores;
• GPA and class standing;
• recommendations from high school officials;
• record of extracurricular activities;
• personal interview by an Air Force representative;
• meeting appropriate Air Force commissioning standards, including a Department of Defense medical examination;
• acceptance and attendance at a college or university offering Air Force ROTC.

**COLLEGE STUDENTS**

Scholarship programs vary for students already in college. Scholarship inquiries and applications are made directly to the Professor of Aerospace Studies during your freshman, sophomore or junior year. Selections are based on scores from the Air Force Officer Qualifying Test, a physical fitness test, overall grade point average, and a rating from the Department chair.

Scholarships are available for two and three years. In selected academic areas, scholarships may be extended to meet a five-year degree program recognized by the college. Two- and three-year scholarships are for students pursuing any academic major.

**PRE-HEALTH PROFESSIONS SCHOLARSHIPS**

Two- and three-year Pre-Health Professions Program scholarships are offered to encourage students to earn commissions through Air Force ROTC and continue their education in medical or osteopathic school. Interested students should apply early in the spring semester of either their freshman or sophomore years.

Students on a Pre-Health Professions Scholarship, may apply for and if accepted, attend medical school under the Armed Forces Health Professions Scholarship Program. This program pays for the cost of medical school and also provides the student with a monthly living expense.

**EXPRESS SCHOLARSHIPS**

This program is designed to meet Air Force ROTC officer production in specific majors and year groups. The list of approved majors and length of these scholarships is subject to change based on the current needs of the Air Force, but these noncompetitive scholarships normally target meteorology, engineering, and other science majors. Scholarship lengths range from 2 to 3 ½ years. Contact the Aerospace Studies Department to see if you qualify for one of these noncompetitive scholarships.

**COMMISSIONING REQUIREMENTS THROUGH AIR FORCE ROTC**

All requirements must be met for a degree according to the University of Oklahoma, as well as completion of certain courses required by the Air Force.

**Air Force ROTC Benefits**

Air Force ROTC can help students with the high cost of earning a college degree. Approximately 70 percent of students enrolled in Air Force ROTC are on scholarship. As an Air Force ROTC cadet, you may be entitled to many benefits including:

• college tuition, textbooks, laboratory, and incidental fees (for those on scholarship);
• monthly tax-free allowance ranging from $250 to $400 for cadets in the Professional Officer Course and scholarship recipients;
• free Air Force uniforms and free textbooks for on-campus ROTC and field training courses. (Room and meals and salary are paid during field training);
• management training and opportunities to apply leadership principles;
• academic credit for Air Force ROTC classes. (The University of Oklahoma also offers a minor in aerospace studies.);
• travel on military aircraft on a space-available basis for scholarship recipients and those in the Professional Officer Course;
• orientation flights aboard Air Force aircraft;
• visits to Air Force bases;

• opportunity to delay entering active duty while pursuing a graduate degree; and
• a challenging job after graduation.

In addition to these benefits, participants appreciate the team spirit that comes with being a member of Air Force ROTC, and enjoy social and extracurricular activities.

**AIR FORCE BENEFITS**

The Air Force offers a competitive benefits package as compared to other career opportunities upon completion of an undergraduate degree.

Benefits include:

• a good starting salary with regular pay raises;
• tax-free housing and food allowances;
• 100 percent of postgraduate tuition costs;
• 30 days vacation with pay each year;
• comprehensive medical and dental care;
• $250,000 low-cost life insurance;
• on-base shopping at reduced prices;
• a wide variety of recreational facilities;
• the satisfaction of a challenging career serving your country; and
• the opportunity to work with some of the best young men and women from across the country.

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**Department of Military Science**

LTC Kathryn J. Schramm, Professor and Chair
290 West Brooks, Room 1
Norman, OK 73019-6021
Phone: (405) 325-3012
FAX: (405) 325-3320
Internet: [http://www.ou.edu/rotc/army/](http://www.ou.edu/rotc/army/)
e-mail: arotc@ou.edu

Military Science is an elective course of study which prepares both men and women to be commissioned as second lieutenants in the Active Army, Army National Guard or Army Reserve while they earn their college degree. Military Science courses are offered during fall and spring semesters.

The first two years of instruction are open to all students and the courses require no more time than other college-level courses. Non-scholarship students incur absolutely no obligation during the first two years. All courses are college accredited.

**BASIC COURSE**

Open to freshman and sophomore students. The courses stress leadership and management training with emphasis on self-development through action-oriented instruction. There is a physical fitness requirement of three times a week.

**ADVANCED COURSE FOR STUDENTS WHO DESIRE TO BE COMMISSIONED AS OFFICERS**

Admission is competitive and requires the student to be fully qualified to receive a commission in the United States Army. The last two years require four semesters to complete and include a six-week summer training session, which is accomplished while a student is in either undergraduate or graduate school. Students in the advanced program incur either an active duty or reserve component commitment. All students enrolled in the advanced program receive $350 to $400 per month for a maximum of ten months in each of the two academic years. Additionally, advanced course students receive approximately $800 for the summer training session.
TWO-YEAR PROGRAM

Two-year college transfers and students who did not enroll in the basic course may qualify for the advanced program by attending a five-week off-campus summer camp prior to the start of the advanced course. Applicants for the two-year program should visit the Department of Military Science in order to complete the necessary requirements for attendance. Students must have at least two academic years remaining in order to be eligible. Students will be eligible to compete for a two-year scholarship. Students with prior military training receive placement credit for the basic course.

SCHOLARSHIPS

The objective of the Military Science scholarship program is to attract highly qualified officer candidates who demonstrate a high degree of maturity, responsibility, ability to communicate with clarity and precision, and ability to think critically and creatively. All scholarships pay tuition, books, lab fees and a monthly allowance of $150. The majority of the students incur a four-year active duty obligation to the Army; however, a limited number of scholarship students can fulfill their obligation by serving with the U.S. Army Reserves or National Guard.

Campus-Based Scholarship Program

Several two, three, and four-year scholarships are available on a competitive basis at the campus level. High school seniors apply by completing an application by either accessing the ROTC web site at armyrotc.com, calling 1-800-USA-ROTC, or contacting the Department of Military Science. Two and three-year scholarships are also available on a competitive basis to all qualified students, whether enrolled in ROTC or not. Students can apply for these scholarships by contacting the Department of Military Science in early January. All majors offered at OU are acceptable programs for a scholarship. Additionally, some scholarships can include a Guaranteed Reserve Forces Duty addendum, allowing the student to fulfill the military service requirement after graduation with the U.S. Army Reserves or National Guard.

PAY AND ALLOWANCES (FINANCIAL ASSISTANCE)

All students enrolled in Military Science are furnished all necessary equipment and uniforms free. All advanced course students are paid a modest allowance for a 10-month period of time during the last two years of the program. Additionally students will receive approximately $800 during the five-week (32-day) summer training session between their junior and senior year in the program.

POSTGRADUATE STUDIES

It is possible for students to enter graduate study programs such as medical school, law school and master’s programs and receive a deferment from active duty until they have completed their degree.

COMMISSIONS OFFERED

All qualified students who complete their Military Science and degree requirements will be commissioned as second lieutenants in either the Active Army, Army National Guard or Army Reserve.

OPTIONS

Upon entrance into the advanced course, a non-scholarship student may request a Reserve Forces Duty contract to be commissioned in the Army Reserve or Army National Guard. Students with Reserve Forces Duty contracts are only required to be on active duty for a period of 90 to 180 days. This period will be devoted to attendance at the Basic Officer’s Course. Time on active duty varies upon length of course. Following this training, the officer will then serve eight years with a Reserve or National Guard unit in his/her community.

BENEFITS

Students who complete the program receive a commission and fulfill their military service obligation on active duty receive the following benefits:

• entry-level position at mid-level management at the rank of second lieutenant;
• starting pay and allowances of approximately $35,000 per year with an automatic promotion at 18 months;
• 30 days paid vacation annually;
• full medical and dental benefits;
• $250,000 low cost life insurance;
• valuable work and leadership experience in a variety of career fields, making you much more marketable in the civilian sector upon finishing the military service obligation;
• tax-free housing and food allowances in addition to base pay; and
• the satisfaction and personal pride associated with service to country.

Even those who do not complete the program will receive valuable, marketable leadership training which will pay dividends in any civilian position.

VETERANS

Approved veterans and students with Military Reserve and National Guard experience may be given credit for the first two years of Military Science. Students receiving advanced placement credit may be enrolled as juniors in ROTC. All advanced placement credit students will receive the financial assistance mentioned above. Veterans will receive this financial aid in addition to their GI Bill benefits. Veterans, Military Reserve and National Guard students are also eligible to compete for scholarships.

SIMULTANEOUS MEMBERSHIP PROGRAM

The Army ROTC/Selected Reserve Simultaneous Membership Program (SMIP) allows enlisted members of the National Guard and Reserve to enroll in advanced ROTC courses. In addition, ROTC advanced course cadets may now enlist as officer trainees in Army National Guard or Army Reserve units. Participants will be given the rank of cadet, will drill with Reserve Component units as officer trainees, and receive E-5 drill pay.

GREEN TO GOLD

The Army ROTC Green to Gold program is available to those students currently on active duty and will have two years of active duty before starting school and meet the minimum requirements for admission, there is also Active duty Green to Gold four-year, three-year, and two-year scholarships available if the student meets the eligibility requirements. Students interested in these opportunities should contact the Military Science Department.

Department of Naval Science

Capt. Gerald W. Geletzke, U.S. Navy, Professor and Chair
290 West Brooks St., Room 12
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The Naval ROTC is a highly competitive program maintained for one purpose-to educate and train qualified men and women for service as commissioned officers in the Navy or Marine Corps. The officer’s commission is earned by the successful completion of degree requirements in the student’s chosen academic field of study, and the completion of the naval science curriculum. The increasingly technical complexion of today’s military prompts many NROTC midshipmen to enroll in demanding majors that will place them at the forefront of tomorrow’s technology. The Naval ROTC program consists of specific naval technical courses, University courses, and leadership development seminars. No military obligation is incurred until a student accepts a scholarship. In addition to their diploma at graduation, a NROTC graduate is commissioned and guaranteed a job as
a manager and leader, as well as the exciting opportunity to proudly serve our country.

The military commander of a Naval ROTC Unit is either a Captain in the Navy or a Colonel in the Marine Corps. As the Professor of Naval Science, he is also a member of the University faculty. The University of Oklahoma has the only Naval ROTC program in the State.

ELIGIBILITY

Naval Science courses are open to all accepted University of Oklahoma students. The courses are accredited.

ROTC OFFICER ACCESSION PROGRAM

Applicants for the Naval ROTC Officer Accession Program must be within age requirements, accepted by the University, and physically qualified. Additionally, the individuals should have demonstrated a satisfactory record of moral integrity, scholarship, and participation in extracurricular activities, and should manifest potential officer characteristics. Students accepted for the Officer Accession Program must have no moral obligation or personal convictions that would prevent them from conscientiously bearing arms and supporting and defending the Constitution of the United States against all enemies foreign and domestic.

To qualify, the applicant must be at least 17 years of age on or before September 1 of the year of enrollment and less than 27 years of age on June 30 of the calendar year in which he/she is commissioned. The Professor of Naval Science may request an age waiver for applicants who will be older than 27. Applicants who have prior active duty military service may be eligible for age waivers for the amount of time equal to their prior service, on a month-for-month basis for a maximum of 36 months.

SCHOLARSHIPS

The objective of the Naval ROTC scholarship is to attract high quality individuals who have the academic, military aptitude, and physical fitness potential to become regular commissioned officers in the Navy and Marine Corps. Scholarships are available in four-, three-, and two-year lengths and are awarded on a nationally competitive basis. The scholarship, regardless of length, pays all tuition, a textbook stipend, fees of an instructional nature, and a subsistence allowance of $250 or more per month. Midshipmen also receive pay during summer training periods. Scholarship students become midshipmen and are expected to maintain a 2.50 grade point average (on a 4.0 scale). Midshipmen who are majoring in a scientific or engineering field may be authorized an additional scholarship year.

Four-Year Scholarships

Scholarships are available to students who have graduated from high school before August 1 of the year the student intends to start college. Applications must be submitted by December 31. The four-year scholarship is awarded annually. The competitive selection process includes such factors as grade point average, high school class standing, quality of high school, difficulty of high school curriculum, ACT/SAT scores, extracurricular activities, and leadership activities.

Three- and Two-Year Scholarships

Available to students who, while members of the Naval ROTC Unit, have demonstrated they possess superior academic, military aptitude, and physical fitness qualities. Recommendations are made semi-annually. For students who are not members of the unit, see a description of the two-year program (Naval Science Institute).

NON-SCHOLARSHIP NAVAL ROTC PROGRAMS

A limited, subsidized Naval ROTC College Program is offered for students who want to serve their country in leadership roles as officers of the Navy or Marine Corps.

Applicants for the College Program are chosen by the Professor of Naval Science from students selected for admission to, or already in attendance at, the University. Uniforms and all books required for Naval Science courses taken by College Program students are paid for by the unit. If accepted into advanced standing (junior and senior years), they will receive $350-$400 per month for a maximum of 20 academic months. College Program students may gain scholarship status by competing for three- and two-year scholarships.

NAVAL ROTC HEALTH PROFESSION PROGRAMS

These programs are available for qualified students who are interested in medical training and receiving an officer's commission in the United States Navy Medical or Nurse Corps.

FINANCIAL ASSISTANCE

Students receiving a Naval ROTC scholarship are granted compensation and benefits. A subsistence allowance of $250 or more per month, pay during summer training periods, a stipend for textbooks, uniforms, tuition, and fees of an instructional nature are paid by the scholarship. Non-scholarship students (College Program) receive $350-$450 monthly, uniforms, and Naval Science textbooks once the student has been accepted into advanced standing (junior and senior years).

BASIC COURSE (FRESHMAN AND SOPHOMORE)

Consists of enrollment in entry level 1000 and 2000 Naval Science courses concurrent with the weekly leadership development seminar to provide the student with an introductory knowledge of the naval service. Normally, one course is taken each semester of the freshman and sophomore years. For sophomores not enrolled the freshman year in Naval ROTC, the freshman courses may be taken concurrently with the sophomore Naval Science Courses.

ADVANCED STANDING (JUNIOR AND SENIOR)

Consists of enrollment in Naval Science 3000- and 4000-level courses and continued enrollment in the weekly leadership development seminar. For non scholarship students, entry into advanced standing is via a national selection process based on the student's academic, military aptitude, and physical fitness record.

TWO-YEAR PROGRAM (NAVAL SCIENCE INSTITUTE)

The Navy and Marine Corps has a Naval ROTC Program which is open to all college students who will complete their sophomore year or third year in a five-year curriculum. Submit an application to the Professor of Naval Science before the end of February. Students selected and physically qualified will attend the six-week Naval Science Institute at Newport, Rhode Island, during the summer between their sophomore and junior years. This training is to bring them up-to-date on the Naval ROTC curriculum missed during their freshman and sophomore years. The student will be reimbursed for travel expenses to and from Newport and also receive pay while studying and training during the six weeks. Students will be eligible to compete for scholarships. The junior and senior level Naval Science curriculum will be completed at the University.

ACTIVITIES

Midshipmen students, on a voluntary basis, may participate in a diversified field of unit-sponsored activities. These include sailing in a 25-foot craft and smaller boats, and activities such as precision drill teams, rifle and pistol team, intramural athletics, unit publications such as the “Flaghoist,” midshipmen social and professional organizations, and fleet orientation trips. Participation in extracurricular activities is not limited solely to those areas sponsored by the Naval ROTC unit. Midshipmen are encouraged to participate in a broad spectrum of University activities.

SUMMER TRAINING

Summer training is provided to midshipmen in fleet units worldwide. The training is for the individual's introduction and participation in fleet operations. Additionally, such training assists the midshipmen in requesting a military specialty prior to commissioning.

Scholarship students, between their freshman and sophomore years, participate in a four-week career orientation program in which a week is
spent each with Naval Aviation, Submarine Force, Surface Force, and the
Marine Corps. Between their sophomore and junior years, Midshipmen
attend a four-week cruise on various commands throughout the fleet
serving in the capacity of enlisted sailors. During the period between the
junior and senior years, they participate in a four-week cruise on various
maritime platforms in various areas of the world serving in the capacity of
junior officers. For the Marine Corps option midshipmen, four weeks of
training is conducted at Quantico, Virginia. Funds are provided to the
individual for summer training.

GRADUATE STUDIES
Midshipmen may request delayed active duty to complete graduate
studies. Current emphasis is on scientific and engineering fields.

Career Opportunities
The qualified young men and women who complete the Naval ROTC
Program at the University will not have to worry about seeking employment
after graduation. Upon graduation, midshipmen are commissioned as
officers in either the Navy or Marine Corps, and during their final semester
are allowed to choose their military specialty from among those fields for
which they are qualified. Navy ensigns can select a career in aviation,
surface warfare, nuclear submarines, or special warfare. The Marine Corps
second lieutenants have a choice between aviation and ground fields,
including infantry, artillery, armor, communication-electronics, combat
engineering, intelligence, air control, computer systems, logistics and
administration.

CURRICULUM CORE REQUIREMENTS
Naval Science Courses
First Year—Naval Science 1132, 1133, 0110*.
Second Year—Naval Science 2113, 2233, 0110*.
Second Year (Marine Option)—Naval Science 0110*.
Third Year (Navy Option)—Naval Science 3133, 3233, 0110*.
Third Year (Marine Option)—Naval Science 3333, 4333, 0110*.
Fourth Year (Navy and Marine Option)—Naval Science 4233, 4633,
0110*.
*Must be scheduled each semester.

Additional Courses (Scholarship Students)
Calculus (two courses)
Physics (two courses)
Computer Course (one course)
American Military History or National Security Policy (one course)
Equal Opportunity Policy

This institution in compliance with all applicable Federal and State laws and regulations does not discriminate on the basis of race, color, national origin, sex, age, religion, disability, or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial aid, and educational services.

Student Code

The University of Oklahoma Student Code includes rules that address the responsibilities and conduct required of Norman Campus students, student groups, organizations, and University-approved or operated living units. The Academic Misconduct Code, sexual harassment policy, and other student-related policies and procedures are also included in the publication. Copies of the Code may be obtained from the Office of the Vice President of Student Affairs, Oklahoma Memorial Union, or the University of Oklahoma Student Association, OMU 181. The Student Code is also accessible on the Internet at http://www.ou.edu/provost.

Academic Misconduct Policy

Integrity in all aspects of scholarship is essential to the University’s mission. The Academic Misconduct Code sets forth the rights and responsibilities of all students on the Norman Campus regarding academic integrity, and provides the procedures to be followed in cases of suspected misconduct.

Academic misconduct is defined as any act which improperly affects the evaluation of a student’s academic performance or achievement. It specifically includes cheating, plagiarism, fabrication, fraud, destruction of property, and bribery or intimidation, as well as assisting others or attempting to engage in such acts.

It is the responsibility of each student to be familiar with the definitions, policies and procedures concerning academic misconduct; and unfamiliarity with the code alters none of a student’s rights or responsibilities thereunder. The Academic Misconduct Code is printed with the Student Code and is also available on the Internet at http://www.ou.edu/provost.

Attendance Policy

A student is responsible for the content of any course in which he or she is officially enrolled. The establishment of specific policy concerning class attendance requirements, as well as announced and unannounced examinations, is the responsibility of the individual instructor.

When absences seriously affect a student’s classwork, the instructor may report this fact to the Office of Admissions, and the information will be directed to the student’s college dean.

Final Examinations

Final examinations are given at the discretion of the instructor (except in those colleges which require such examinations), or, in the case of multiple sections, the department in which the course is offered. When a final examination is given, the student must take the examination.

If a final examination is given, no member of the faculty is authorized to depart from the published examination schedule for either a class or an individual without approval, as follows: An examination for the entire class may be rescheduled only with the approval of the Academic Regulations Committee. A request for such rescheduling should be addressed to the chair of that committee and should carry the endorsement of the department and the dean concerned. Final examinations for a class outside the period set aside in the University calendar for final examinations are prohibited.

An examination may be rescheduled for an individual student only in emergencies such as the illness of the student, a serious illness or death in the immediate family or an unavoidable academic conflict of compelling importance. For such a conflict to be considered as grounds for rescheduling a final examination, the activity must be directly related to the student’s academic work in the University. Such rescheduling must have the approval of the instructor or instructors concerned, the department chair or chairs concerned, and the dean of the college in which the student is enrolled and should be timed in such a way to avoid compromising the integrity of the examination.

FINAL EXAMINATION has been defined as follows: an examination which is comprehensive in nature or which accounts for a greater proportion of the final grade than an examination given during the semester. (President, 2-10-86)

*(Presidential approval given upon the understanding that in cases of extreme hardship caused by conflicting activities that do not fall within the criteria of the policy, individual students may petition to the faculty and administration for relief.)

A student will not be expected to take more than two examinations in one day. In cases where a student has three or more exams scheduled for the same day, instructors must offer makeup exams. The student’s number of exams will be brought down to two by the following procedure:

a. If a student has three or more exams on the same day, the instructor(s) giving the third and subsequent exams must provide make-up exams during the week designated for final exams for that semester;

b. The student must notify the instructor or department of the third and subsequent final exams scheduled within a single day. Such notification must be given to the specific instructor or department before the end of the twelfth week of classes (sixth week of the summer term).

In the event a conflict should arise from the scheduling of two or more uniform final examinations at the same time, the student will attend the examination for the class that met first during the week, according to the student’s class schedule. The instructor(s) giving the second and subsequent exams must provide make-up exams during the week designated for final exams that semester.

The specific final exam makeup time will be established by mutual agreement between the student and the course instructor. If no agreement is reached, the exam will be held from 3:00–5:00 PM on Sunday of the exam week. (Faculty Senate, 11-12-90)

Reasonable Accommodation Policy

The University of Oklahoma will reasonably accommodate otherwise qualified individuals with a disability unless such accommodation would pose an undue hardship, or would result in a fundamental alteration in the nature of the service, program or activity, or in undue financial or administrative burdens. The term “reasonable accommodation” is used in its general sense in this policy to apply to employees, students and visitors.

Student requests for reasonable accommodation should be addressed to the Office of Disability Services, Goddard Health Center, Suite 166, (405) 325-3852, TDD (405) 325-4173, FAX (405) 325-4491, or ods@ou.edu.

A student must self-identify as an individual with a disability and provide appropriate diagnostic information that substantiates the disability. The Office of Disability Services will then assess the impact of the disability on the student’s academic program and record the required academic accommodations in a memo to the instructor. All diagnostic information is confidential and therefore memos can be sent only at the student’s request.

Individuals who have complaints alleging discriminations based upon a disability may file them with the University’s Affirmative Action Officer in accordance with prevailing University discrimination grievance procedures.
Sexual Harassment

The University of Oklahoma explicitly condemns sexual harassment of students, staff, and faculty. Since some members of the university community hold positions of authority that may involve the legitimate exercise of power over others, it is their responsibility to be sensitive to that power. The University is committed to providing an environment of study and work free from sexual harassment and to insuring the accessibility of appropriate grievance procedures for addressing all complaints regarding sexual harassment. To proceed with such a grievance, contact the Affirmative Action Office, Evans Hall, Room 102, for further information, or call 325-3546.

Student Discrimination

The University has a policy of internal adjudication of student grievances. A procedure is established to provide the opportunity for a student to have a grievance of any type heard and adjudicated by administrative settlement. The procedures are designed to hear all grievances related to alleged discrimination on the basis of race, color, sex, religion, national origin or age. For further details about the procedure to be followed, see the Student Code under the section: University of Oklahoma Student Discrimination Grievance Procedure or contact the Affirmative Action office.

Procedures for the Release of Information About Students

Information about students and former students gathered by the University of Oklahoma is of two types: (1) directory, and (2) confidential. Any office gathering such information, and/or having custody of it, shall release it only in accordance with this policy.

When a student enters a university and furnishes data required for academic and personal records, there is an implicit and justifiable assumption of trust placed in the university as custodian of such information. This relationship continues with regard to any data subsequently generated during the student’s enrollment.

While the university fully acknowledges the student’s rights of privacy concerning this information, it also recognizes that certain information is part of the public record and may be released for legitimate purposes.

With these considerations in mind, the University of Oklahoma adopts the following policy concerning the release of information contained in student records:

1. Directory Information: This is information which routinely appears in student directories and alumni publications and may be freely released. Upon written request by the student, this information will be treated as confidential and released only with the student’s written consent. Forms for withholding student “Directory Information” are available in the Office of Admissions and Records on each campus.
   a. Name, current and permanent home addresses, telephone number, and e-mail addresses.
   b. College, major and classification.
   c. Current enrollment status.
   d. Dates of attendance.
   e. Degrees and dates of graduation.
   f. University honors.
   g. Verification of student’s participation in recognized student activities.
   h. Posting of individual student’s grades and interim class evaluations by code number.
   i. Anticipated date of graduation based on completed hours.
   j. Weight and height of athletic team members.
   k. Photograph.

2. Confidential Information: This is all other information contained in the student’s educational record and can be released only upon the written consent of the student, with the following exceptions as defined in the Family Educational Rights and Privacy Act of 1974, as amended, which waive prior student consent.
   a. Other school officials within the educational institution who have legitimate educational interests. Other school officials are defined as:
   b. a person employed by the University in an administrative, supervisory, academic or research, or support staff position, including health and medical staff;
   c. a person appointed to the Board of Regents;
   d. a person employed by or under contract to the University to perform a special task, such as the attorney or auditor;
   e. a person who is employed by the University Law Enforcement Unit; or
   f. a student serving on an official committee such as a disciplinary or grievance committee, or who is assisting another school official in performing their tasks.
   A school official has a legitimate educational interest if the official is:
   • performing a task related to the student’s education;
   • performing a task related to the discipline of a student;
   • providing a service or benefit relating to the student or student’s family such as health care, counseling, job placement, or financial aid; or
   • maintaining the safety and security of the campus.
   b. Officials of schools to which the student seeks to transfer.
   c. The Comptroller General of the United States, the HEW Secretary, the administrative head of an educational agency, or State educational authorities.
   d. In connection with a student’s application for, or receipt of, financial aid.
   e. State and local officials or authorities to which such information is specifically required to be reported under State statute adopted prior to November 17, 1974.
   f. Organizations or educational agencies conducting legitimate research, provided no personally identifiable information about the student is made public.
   g. Accrediting organizations.
   h. Parents of a dependent student upon proof of dependency as defined by the Internal Revenue Code of 1954. (Parents of international students are excluded.)
   i. To comply with a judicial order or lawfully issued subpoena; provided that the educational agency or institution makes a reasonable effort to notify the student of the order or subpoena in advance of compliance.
   j. In connection with an emergency when such information is necessary to protect the health or safety of the student or other persons.
   k. The result of any disciplinary proceeding conducted by the University against an alleged perpetrator of a crime of violence to the alleged victim of that crime.

Confidential information shall only be transferred to a third party, however, on the condition that such party will not permit any other party to have access to the information without the written consent of the student. Original credentials with which a student applies for admission or readmission to the University of Oklahoma become the property of the University, are assembled in a permanent student folder, and are not released to anyone. The file contents are made available only to those persons properly authorized to receive confidential information and only in consultation with a professional staff member in the Office of Admissions and Records.

Although the permanent academic record is a cumulative record compiled by the student, the Registrar is the officer of the institution charged with the responsibility of its accuracy and safekeeping. Accordingly, the student folder and the permanent cumulative academic record are not available to anyone for removal from the Registrar’s assigned depository.

While the release of an official transcript is limited to the student, or any party to whom he/she has assigned permission to request it, the student may place a hold on the release of his/her own transcript to anyone without his/her specific permission by filing a request in writing with the Registrar.

More information concerning this policy may be obtained by contacting the Office of Admissions and Records.
# Course Descriptions

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How to Read a Course Description

Course Listings
The Course Listings section describes all courses approved for offering by the University of Oklahoma. The courses are listed alphabetically by department.

The word “course” refers to a subject taken during a semester (or summer session) with a certain number of prescribed meetings each week. Successful completion of a course usually earns a specified number of semester hours of credit toward a degree. The words “curriculum” or “program of study” refer to an organized plan of work composed of a number of courses. The completion of a curriculum ordinarily leads to a degree.

The Class Schedule lists the specific courses available that semester, the time of meeting, and building and room numbers where the course meets.

Explanation of Course Listings
A course listing is comprised of the following elements, in order:

**COURSE NUMBER**
All courses are identified by numbers composed of four digits. Courses numbered 1000–2999 are referred to as “lower division,” those numbered 3000–4999 are “upper division,” and those numbered 5000 and above are “graduate-level.”

The first digit indicates the class year in which the subject is ordinarily taken, although enrollment is not exclusive as to student classification:
1. Courses numbered 0000 to 0999 are developmental remedial courses offering no college credit.
2. Courses numbered 1000 to 1999 are primarily freshman level.
3. Courses numbered 2000 to 2999 are primarily sophomore level.
4. Courses numbered 3000 to 3999 are primarily junior level.
5. Courses numbered 4000 to 4999 are primarily senior level.
6. Courses numbered 5000 to 5999 are primarily for post-baccalaureate students, except by permission of the department and the graduate dean.
7. Courses numbered 6000 to 6999 are restricted to post-baccalaureate students, except by permission of the department and the graduate dean.

The second and third digits identify the course within the field.

The fourth digit denotes the number of credit hours assigned to the course. A zero (0) as the fourth digit indicates the course is offered for a variable number of credit hours. No change may be made in the number of credit hours specified for the various courses as indicated in the catalog.

A G before the course number indicates the course is approved for graduate credit.

The only exception is University course 4000 which carries graduate credit when completed through the Scholar-Leadership Enrichment Program. A dagger (†) before the G indicates the course is not applicable for graduate credit in that department.

**CREDIT**
The unit of credit at the University of Oklahoma is the semester hour. Each semester hour represents one class period of 50 minutes in length each week for sixteen weeks (including final examinations) or the equivalent. Laboratory or field courses require two or three class periods per week for each hour of credit. During the summer session, the number of clock hours is doubled.

**COURSE TITLE**
The title of the course is printed in bold letters.

**CROSSLISTING/SLASHLISTING COURSES**
Crosslisting of courses will be indicated after the course title, where the departments in which the course is crosslisted will be shown. This means that a course is offered through all of the departments indicated so that students may take a class through their major department.

Slashlisting of courses will also be indicated after the course title. Courses are slashlisted so undergraduate students may take an undergraduate 4000-level course in a department while graduate students may take a graduate 5000-level course in the same department. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus. No student may earn credit for both the 4000- and the 5000-level course.

**STATEMENT OF VARIABLE CREDIT**
The credit that may be earned in a variable-credit course (course number ending in 0) is shown after the course title. A typical entry is 1 to 3 hours.

**PREREQUISITES**
Prerequisites are the courses or requirements that must be completed prior to enrolling in a certain course. Prerequisites for a course are listed after the course title or, in some departments, before numbered sections of courses. Prerequisites from the same department as the course being described are listed first, with no departmental designation and in ascending numerical order. If from another department, that departmental designation precedes the number of the prerequisite course. Courses having prerequisites from inside and outside the department will have combination entries such as 3153, Mathematics 3123.

It is the student’s responsibility to make sure he/she has completed the proper prerequisites before enrolling in any class.

An academic standing prerequisite is stated by classification. Freshmen have accumulated between 1 and 29 semester hours; sophomores between 30 and 59 hours; juniors between 60 and 89 hours; seniors more than 90 hours; and graduate students must have been admitted to the Graduate College.

Courses listed as “corequisite” or “concurrent with” are to be taken in the same semester as the course desired.

The statement “or permission of instructor” means the instructor may waive prerequisites when a student’s background justifies. However, “and permission of instructor” means the student must have the instructor’s permission as well as the prerequisite courses.

**DESCRIPTION OF CONTENT**
The content of the course and its major emphases are described.

**LABORATORY**
If a course has a laboratory, the word laboratory is printed in boldfaced letters at the end of the course description.

**SEMESTER OFFERED**
At the end of the course description the semester or term in which the course is likely to be taught may be indicated. (F), (Sp), (Su) indicate fall, spring, summer; (Alt. F), (Alt. Sp), (Alt. Su) mean alternate fall, spring, summer. The notation (Irreg.) indicates the course is offered on irregular basis and the student should check with the school or department to determine when the course will be taught. The Class Schedule should be consulted for the courses to be offered in a semester or summer session and also for information about which courses meet the University-wide General Education requirements.

**GENERAL EDUCATION DESIGNATION**
If a course has been approved for University-Wide General Education it is indicated at the end of the course in brackets with a Roman numeral, indicating the core area, followed by numbers or upper-case letters, indicating core component. An explanation of these codes is as follows:

| Core Areas and Components | | |
|---------------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| I – Symbolic and Oral Communication: Engl – English 1113; | Engl – English 1213; | Engl – Other English Composition; Fl – Foreign Language; M – Mathematics; O – Other. |
| II – Natural Science: NL – No Lab; Lab – With Lab. | |
| III – Social Science: Psc – Political Science 1113; Ss – Social Sciences. | |
| IV – Humanities: Us – U.S. History; Af – Artistic Forms; Wc – Western Civilization and Culture; Nw – Non-Western Culture. | |
| V – Capstone. | The University reserves the right to cancel any course without notice. |
Accounting (ACCT)

2113 Fundamental Financial Accounting. Basic principles of financial accounting. Emphasis on the preparation and use of the income statement, balance sheet, and statement of funds flow for corporations. Coverage includes the analysis and recording of transactions involving cash, inventories, fixed assets, bonds and capital stock as well as closing, adjusting and reversing entries for revenue and expense items. (F, Sp, Su)

2123 Fundamental Managerial Accounting. Prerequisite: 2113. Introduction to managerial accounting. Analysis of cost behavior and the use of this knowledge for both short- and long-term decision. An introduction to budgeting and the accumulation of product costs for planning and performance evaluation. Specific coverage includes cost-volume-profit analysis, capital budgeting, allocations, variances from standard costs and the measurement of divisional performance. (F, Sp, Su)

3023 International Financial Statement Analysis (Crosslisted with Business Administration 3023). Prerequisite: 2113 and 2123. A review of international financial reporting development, procedures and standards with an emphasis on financial statement interpretation and analysis. Not open to accounting majors. (Sp)

3113 Intermediate Accounting I. Prerequisite: 2123. Valuation and other theoretical problems in accounting for cash, temporary investments, receivables, inventories, long-term investments, plant and equipment and intangible assets. (F, Sp, Su)

3123 Intermediate Accounting II. Prerequisite: 3113 and junior standing. Stockholders’ equity, dilutive securities, investments, issues related to income determination including revenue recognition, accounting for income taxes, pensions, leases and error analysis, preparation and analysis of financial statements, including price level changes and statement of changes in financial position. (F, Sp, Su)

3313 Cost Accounting. Prerequisite: 2123, junior standing. Basic cost principles. Job order costing, process and product costing, and estimated costs. (F, Sp, Su)

3363 Accounting Information Systems. Prerequisite: 3113, MIS 2113 or equivalent, and junior standing. A study of the structure, flow, and use of accounting data in computer-based environments. Topics include: analysis and design of accounting systems, database concepts, internal control, IT audits, event-based modeling, and electronic commerce. Course focuses on the practical application of system concepts to accounting practice. (F, Sp)

3603 Income Tax Accounting I. Prerequisite: 3113 or permission, junior standing. Introduction to the taxation of income including issues related to the measurement and recognition of income, deductions and losses; the taxation of property transactions; basis and cost recovery concepts; and alternative forms of business organization. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: junior or senior standing, admission to the Honors Program. May be repeated; maximum credit six hours. Independent study in field of accounting and related disciplines to broaden student’s perspective in general field of business. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: junior or senior standing, admission to the Honors Program. May be repeated; maximum credit six hours. Independent research in field of accounting and related disciplines to apply research techniques learned in research tools courses to actual business situations. (F, Sp, Su)

4113 Advanced Accounting (Slashlisted with 5113). Prerequisite: 3113, 3123, and junior standing. Consolidated financial statements, business combinations, branch accounting, foreign currency transactions and financial statements, governmental accounting, partnerships. No student may earn credit for both 4113 and 5113. (F–Irreg.)

4233 Governmental Accounting. Prerequisite: 2113, 2123, and 3113. Study of governmental and non-profit accounting. An analysis of funds that reflect activity for government units, hospitals, and educational institutions. (F)

G4543 Auditing. Prerequisite: 3113, 3123, 3363 and one of the following: 3313, 3603, 4113, 4233 or 4703. Auditing concepts, standards, principles, and procedures; coverage includes professional ethics, auditors’ legal responsibilities, EDP control systems, audit sampling, and audit reports. (F, Sp, Su)

G4553 Accounting Theory. Prerequisite: twenty-four hours of accounting, junior standing. A study of the current rules governing financial accounting and financial reporting as promulgated by the Financial Accounting Standards Board. (F, Sp)

4703 Income Tax Accounting II (Slashlisted with 5703). Prerequisite: 3603 or permission, junior standing. Advanced issues related to the taxation of multi-jurisdictional operations and transactions involving corporations, partnerships, estates, and trusts, and their owners throughout the life of the entity. No student may earn credit for both 4703 and 5703. (F, Sp)

4710 Special Topics in Accounting. Prerequisite: 2113, 2123. May be repeated with change of topic; maximum credit six hours. Topics may include any accounting related area. (F, Sp, Su)

G4990 Special Problems in Accounting, 1 to 2 hours. Prerequisite: twenty-four hours of accounting. Directed readings and problems under staff supervision for advanced students. A comprehensive report and/or examination is required. (F, Sp, Su)

G5013 Quantitative Financial Controls. Prerequisite: graduate standing, permission. Basic accounting concepts and conventions. A general survey of accounting techniques employing the case study approach. Relationship of accounting to other functional areas of business. Not open to accounting majors. (F, Sp, Su)

G5023 International Financial Statement Analysis. Prerequisite: 5013 or permission. A review of international financial reporting developments, procedures, and standards with an emphasis on financial statement interpretation and analysis. (Irreg.)

G5113 Advanced Accounting (Slashlisted with 4113). Prerequisite: 3113, 3123, and graduate standing. Consolidated financial statements, business combinations, branch accounting, foreign currency transactions and financial statements, governmental accounting, partnerships. No student may earn credit for both 4113 and 5113. (Sp–Irreg.)

G5313 Managerial Accounting Tools. Prerequisite: 5013, Economics 5023 or equivalent, graduate standing and permission. Theories, concepts and techniques that are involved in meeting the information needs of managers. The development of management control systems that guide managerial decision making. These information issues, in the context of a business firm, provide the focus of the course. (Sp)

G5353 Financial Statement Analysis. Prerequisite: graduate standing or permission of instructor. Topics in analysis and use of general purpose financial statements for decision making, ratio analysis, credit risk, and valuation will be covered. (Sp)

G5543 Contemporary Auditing Issues. Prerequisite: 4543, graduate standing and permission. Designed to enhance students’ understanding of the fundamental concepts of auditing through the analysis and discussion of actual problematic audits or audit-related situations. Emphasis is also placed on the key ethical issues that face audit practitioners. (Su)

G5613 Tax Research and Practice. Prerequisite: 4603. Focus on the development of skills necessary to resolve issues in tax practice. Objectives include: 1) develop knowledge of tax research resources; 2) understand the framework of tax law; and 3) understand ethics as applied to tax practice. (Sp)

G5703 Income Tax Accounting II (Slashlisted with 4703). Prerequisite: 3603 or permission and junior standing. Advanced issues related to the taxation of multi-jurisdictional operations and transactions involving corporations, partnerships, estates, and trusts, and their owners throughout the life of the entity. No student may earn credit for both 4703 and 5703. (F, Sp)

G5951 Research Methods in Accounting. Prerequisite: candidacy for the degree of Master of Arts with a major in accounting, permission. Enrollment for one semester will be required of all graduate students working toward the degree of Master of Arts with a major in accounting. This seminar must be completed as a condition precedent to enrollment in 5980 and writing the master’s thesis. (F, Sp, Su)

G5970 Seminar. 1 to 3 hours. Prerequisite: graduate standing and permission. May be repeated with change of subject matter; maximum credit eight hours. A seminar for graduate students, with topics to be announced each time the course is offered. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree; four hours. (F, Sp, Su)

G5990 Research in Accounting. 1 to 4 hours. Prerequisite: graduate standing and permission. A survey of current topics appearing in the academic accounting literature. Students will analyze and critique emerging original research in accounting. Intended for, but not restricted to, doctoral accounting students to provide a foundation for their future research efforts. Required for all Ph.D. students whose dissertation topic is in the area of accounting. (Irreg.)
G6313 Seminar in Controllerness. Prerequisite: a course in statistics, graduate
measurement, and control. The study of theoretical, conceptual, and technical issues
in financial planning and control. Primary emphasis is on the performance
measurement components of control and related costing issues. These issues
studied from the perspective of a controller. (F, Sp)

G6323 Strategic Cost Analysis. Prerequisite: 3313 with graduate standing; or
3513; or Business Administration 5233 (Part B). Study of principles of cost
systems design for strategic cost analysis and identifying the symptoms and
causes of cost system failure in today's highly competitive and technologically
advanced environment. The systems used by actual organizations are
described and the managerial uses of cost accounting information for various
decisions are explored. (Irreg.)

G6343 Seminar in Auditing. Prerequisite: graduate standing, twenty-four
hours of accounting, permission. The application of auditing principles and
procedures to actual situations, using case studies. Analysis of auditing bulletins
promulgated by the American Institute of Certified Public Accountants. (F)

G6553 Seminar in Accounting Theory. Prerequisite: graduate standing,
twenty-four hours of accounting and permission. Study of the development
of accounting theory, the theory of income, asset valuation and history of
accounting thought. (F)

Prerequisite: graduate standing, 4613 (or concurrent enrollment in 4613) and
permission. An advanced study of corporate income taxation including:
corporate formation, concept of earnings and profits, acquisitions and
liquidations, realizable compensation, stock redemptions, accumulated
earnings tax, personal holding companies, reorganizations, Subchapter S
corporations and other tax areas. (Irreg.)

G6623 Federal Income Taxation of Partnerships. Prerequisite: graduate
standing, 4613 (or concurrent enrollment in 4613) and permission. An
advanced study of acquisitions of partnership interests, the basis of a partner's
partnership interest, taxing partnership operations, transfers of partnership
interests, partnership distributions, death or retirement of a partner and
adjustments to the basis of partnership assets. (F, Sp)

G6643 Federal Estate and Gift Tax Planning and Practice. Prerequisite: 4613
(or concurrent enrollment in 4613), graduate standing and permission.
An intensive study of property owned by the decedent, powers of appointment,
life insurance, valuation issues and techniques, deductions from the gross
estate, estate tax credits, transactions subject to the gift tax, gift and estate
tax returns and procedures, and emphasis on pre- and post-mortem estate
planning. (Irreg.)

G6663 Federal Income Tax in Extractive Industries. Prerequisite: graduate
standing, 4613 (or concurrent enrollment in 4613) and permission. Concepts
of taxation unique to the oil and gas industry and other extractive industries.
Concerned with acquisition and development of properties, mineral rights, sharing
arrangements, unit of property concept, depletion allowances, conveyances of
mineral properties, operating problems and joint operations. (Irreg.)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)

Aerospace and Mechanical Engineering (AME)

The school offers courses which are Slashlisted so undergraduate students
may take an undergraduate 4000-level course while graduate students may
take a graduate 5000-level course. The lectures in a Slashlisted course are
the same. However, students in the 5000-level course have substantial
additional requirements beyond those for students in the 4000-level course.
These additional requirements are listed in the Slashlisted course syllabus.

2113 Statics and Dynamics (crosslisted with Civil Engineering 2113).
Prerequisite: Physics 2514 and Mathematics 2433 or concurrent enrollment in
Mathematics 2433. Vector representation of forces and moments: general
three-dimensional theorems of statics and dynamics; centroids and moments
of area and inertia. Free-body diagrams, equilibrium of a particle and of rigid
bodies, principles of work, and energy; principle of impulse-momentum.
Motion of particles and rigid bodies in translating and rotating reference frames.
Newton's laws of motion and Lagrange's equation, including application to
lumped-parameter systems. Analysis of trusses, frames, and machines. (F, Sp)

2213 Thermodynamics. Prerequisite: Mathematics 2433 and Physics 2524.
First and second law of thermodynamics are developed and applied to the
solutions of problems from a variety of engineering fields. Extensive use is
made of differential calculus to interrelate thermodynamics functions. (F)

2223 Introduction to Aerospace Engineering. Prerequisite: Physics 2514.
Nature of atmospheric and space flight and of associated vehicles, conceptual
design of flight and space vehicles, and current problems in aerospace
engineering. (F)

2281 Engineering Co-Op Program (Crosslisted with CH E, CE, CS, CSE,
ENGK, EPHY, ES, GE, IE, PE 2281). Prerequisite: student participation in the
program. The Co-Op program provides student placement in jobs outside the
University, but in a position related to the student's major. On completion of a
semester work period, the student submits a brief written report. One hour of
credit (elective) granted for each work period; maximum credit six hours. (F, Sp, Su)

2303 Materials, Design and Manufacturing Processes. Mechanical and
physical properties of engineering materials. Introduction to design methods,
manufacturing processes and equipment used in engineering. (Sp)

2401 Engineering Computing. Prerequisite: Mathematics 1823 or concurrent
enrollment. Introduction to computer programming and university computing
facilities. Program design and development; computer application exercises in
engineering. (F)

2533 Dynamics II. Prerequisite: 2113, Mathematics 2433. Dynamics of
particles and rigid bodies for rectilinear and curvilinear motion; energy and
momentum methods; introduction to mechanical vibrations. (Sp)

2623 Circuits and Sensors. Prerequisite: Mathematics 3113 or equivalent or
concurrent enrollment; Physics 2524 or concurrent enrollment. Formulation
and solution of circuit equations, network theorems, sinusoidal steady-state
analysis, simple transients. Introduction to digital logic circuits. Physical
principles of sensing and actuation. Applications to engineered systems of
computer programming, embedded systems, and controls. (Sp)

3103 Interactive Engineering Design Graphics. Prerequisite: Mathematics
1823. Visualization and modeling techniques for product design and development.
Design methodology, graphic standards, projection theory, freehand sketching,
spatial geometry, CAD systems, geometric modeling, and tolerancing. Solving
open-ended design and visualization problems. Laboratory (F, Sp, Su)

3112 Solid Mechanics Lab. Prerequisite: Engineering 2113; corequisite:
3143. Measurement of displacement; velocity, acceleration, force, torque,
strain, stress, data acquisition and processing; data analysis. Laboratory (F)

3122 Heat Transfer and Fluid Mechanics Lab. Prerequisite: Engineering 2113,
corequisite: 3173. Basic measurement concepts in fluid mechanics and thermal
science. Concepts and methods of measuring pressure, temperature, flow,:
thermal and transport properties. Data acquisition and analysis. Laboratory (Sp)

3143 Solid Mechanics. Prerequisite: Engineering 2113, Mathematics 3113;
corequisite: 3112. Concepts of stress and strain; mechanical behavior of
engineering materials; analysis of uniform stress states; analysis of members in
torsion; stresses and deflections in beams; modes and theories of failure;
design criteria. (F)

3153 Fluid Mechanics. Prerequisite: Engineering 2113, 2213, Mathematics
3113. Principles of fluid mechanics: fluid statics, flow descriptions, conservation
equations, dimensional analysis, potential flow, viscous flow and internal flow. (F)

3173 Heat Transfer. Prerequisite: 3153, Engineering 2213; corequisite: 3122.
Heat transfer by conduction, convection, and radiation; mass transfer and
combined modes of heat transfer. (Sp)

3223 Thermodynamics II. Prerequisite: Engineering 2213. Properties of
fluids; gas and vapor tables, charts and diagrams; power cycles for gases and
vapors; mixtures of gases and vapors; psychrometry; flow of fluids; refrigeration
fundamentals, gas compression. (Irreg.)

3253 Aerodynamics. Prerequisite: 2223, 2533, Mathematics 3113 or equivalent;
corequisite: 3272. Fluid properties, fluid statics, flow description, conservation
equation; incompressible inviscid flow dynamics; characteristic:
airfoil parameters; two-dimensional flow around thin airfoils; flow around wings
of finite span; boundary layer development; compressibility; governing equations
for inviscid compressible flow normal and oblique shock relations; Prandtl-Meyer
expansion waves; quasi-one-dimensional flow through nozzles and diffusers. (F)

3272 Windtunnel Laboratory. Corequisite: 3253. Operation and calibration
of subsonic and supersonic wind tunnels, power and measurement.
Experimental testing of model airplanes and aerodynamic shapes;
determination of drag of flight vehicle components. Laboratory (F)

3333 Flight Mechanics. Prerequisite: 2223, 2533. Performance of aerospace
vehicles, weight and balance, equations of motion for rigid aircraft,
introduction to static stability and control (open loop) and fundamentals of
aircraft analysis and design. (Sp)
3353 Design of Mechanical Components. Prerequisite: 2303 and 3143. Analysis and design of mechanical subsystems and selection of elements such as gears, shafts, clutches, brakes and modern mechanical components. (Sp)

3363 Design of Thermal-Fluid Systems. Prerequisite: 3153 or 3253, 3173, Engineering 1001. Design of fluid flow, heat transfer and energy systems including analysis, synthesis and optimization. Topics include but are not limited to: ducts and piping systems, fluid machinery, heat exchangers, thermal storage devices, furnaces, combustors, refrigeration and air conditioning systems. (F)

3413 Vibrating Systems. Prerequisite: 2533 and Mathematics 3113. Free and forced vibrations in lumped-parameter linear systems of one, two or more degrees of freedom. Resonance phenomena, dynamic absorbers; vibration-measuring equipment. Introduction to Laplace transforms and transient vibrations, distributed systems. (Irreg.)

3523 Aerospace Structural Analysis. Prerequisite: 3143, Mathematics 3113 or equivalent. Advanced concepts of stress and strain; introduction to the analysis of aerospace engineering structures: complex bending and torsion, shear flows in thin-walled and stringer-skin sections; buckling; introduction to the finite element method; introduction to composite materials. (Sp)

3623 Embedded Real-Time Systems. Prerequisite: 2623 or equivalent, Computer Science 1313 or equivalent, or permission from the instructor. The fundamentals of real-time embedded systems are covered including processes, scheduling, frequency requirements, and watchdog timers. Includes work with actual real-time systems. (Sp)

3960 Honors Reading 1 to 3 Hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Coverage includes materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student’s field. (F, Sp, Su)

4163 Principles of Engineering Design. Prerequisite: 2103, 2533, 3143. Design process and methodology from concept through analysis, layout and report. Types of design problems, human element in design, computer aid in design, specification development, concept generation, concept evaluation, product generation, function and performance evaluation, design-to-cost, design-for-assembly, final product documentation, ethics, safety and economics. (F)

4193 Introduction to Computer-Aided Design. Prerequisite: senior standing in an engineering curriculum and knowledge of a computer programming language. Topics include: computer-aided design, engineering-drafting and manufacturing, CAD systems, geometry, computer graphics, hardware, design synthesis. System demonstrations and labs. (Irreg.)

4213 Biomechanics I (Slashlisted with 5213). Prerequisite: 3143 and 3153 or permission of instructor. Introduction to physiological systems with emphasis on structure and function of tissues and organs; application of continuum mechanics to understanding of tissue and organ behavior at microscopic and macroscopic levels; viscoelastic and solid biomaterials. No student may earn credit for both 4213 and 5213. (Sp)

4223 Biomechanics II (Slashlisted with 5223). Prerequisite: 3143 and 3153 or permission of instructor. Biophysical mechanics; non-Newtonian behavior of blood and body fluids; basic mechanical properties of muscle, bone, cartilage, and other living tissues; application of continuum mechanics to circulation; growth and change of living organs in response to stress and strain. No student may earn credit for both 4223 and 5223. (F)

4233 Biomaterials (Slashlisted with 5233). Prerequisite: junior or senior standing in the College of Engineering and permission of instructor. Introduction to materials used in biomedical environment, the design and use of implantable materials, such as metals, polyethylene, ceramics, and composites, biocompatibility, test methods, and tissue growth on biomaterials. No student may earn credit for both 4233 and 5233. (Irreg.)

4243 Aerospace Propulsion Systems. Prerequisite: 3803. Propulsion systems, thermodynamic cycles, combustion and thermochemical analysis, reciprocating engines, gas turbine and jet engines, current developments in propulsion systems. (F)

4253 Implantable Devices (Slashlisted with 5253). Prerequisite: 3143. Provides student with a basic understanding of design, testing and application of implants/implantable devices and current development of implantable prostheses and devices in heart, cardiovascular system, soft tissue, bone and joint replacements, sensory system (ear and eye), and drug delivery system. No student may earn credit for both 4253 and 5253. (Irreg.)

4263 Computer Integrated Manufacturing (Slashlisted with 5263). Prerequisite: 2303, 4283. A general understanding on computer-based methods for manufacturing and assembly of mechanical products. The concept and methods for product manufacturing and assembly will be introduced from design viewpoint. No student may earn credit for both 4263 and 5263. (Irreg.)

4273 Aerospace Systems Design I. Prerequisite: 3253, 3333. Analysis and design of an aerospace system such as a complete flight vehicle, a propulsion system, a structural system, or a control system; market analysis; operating studies, mission specification, certification requirements; configuration selection; multidisciplinary character of design, classical design and analysis methods. Laboratory. (F)

4283 Concurrent Design and Manufacturing (Slashlisted with 5283). Prerequisite: 2303, 2533, and 3143. The general concepts and methods in performing concurrent design and manufacturing for product development. Fundamental design theories and methods such as utility theory, state transition matrix method, game theory, and system life-cycle modeling and optimization will be introduced. No student may earn credit for both 4283 and 5283. (F)

G4362 Experimental Stress Analysis (Crosslisted with Civil Engineering 4362). Prerequisite: Engineering 2123; AME 3112 or equivalent or graduate standing. Determination of stress by means of bonded wire, metal film and semiconductor strain gages, biaxial coating and photoelasticity. Design, selection and use of gauges for measuring static, dynamic and combined strains. Laboratory. (Irreg.)

4373 Aerospace Systems Design II. Prerequisite: 4273. Analysis and design of an aerospace systems such as a complete flight vehicle, a propulsion system, a structural system, or a control system; handling qualities, propulsion system integration design case studies; consideration of operational aspects, reliability, and maintainability; ground and flight testing; advanced design and analysis methods. Laboratory (Sp) [V]

4383 Control Systems. Prerequisite: 2533, Mathematics 3113 or equivalent. Introduction to the concepts and theory of feedback control systems. Representation of electromechanical systems and aerospace vehicles by transfer and state variable methods. Stability and performance analysis, design techniques and synthesis methods for linear control systems. (F)

G4442 Internal Combustion Engines Laboratory. Prerequisite: 3122 or graduate standing. Test equipment and instrumentation, propulsion systems, reciprocating engines, supercharger fuel systems, tests and evaluation. Laboratory (Sp)

4493 Space Sciences and Astrodynamics (Slashlisted with 5493). Prerequisite: Physics 2524, Mathematics 2443. Selected topics in astrophysics which may include astrodynamics, stellar structure and evolution, stellar pulsation, supermavoves black holes, interstellar medium, galactic structure and clusters and superclusters, active galaxies, quasars, and cosmology. No student may earn credit for both 4493 and 5493. (F)

G5413 Flight Controls (Slashlisted with 5513). Prerequisite: 3333, 4383. Classical control theory with applications to aircraft flight control system design. No student may earn credit for both 4513 and 5513. (F)

4533 Design Practicum. Prerequisite: senior standing, 3333 and/or 3363, 4163, or permission. Design study of actual problems in industry. Lecture and Laboratory (Sp) [V]

4593 Space Systems and Mission Design (Slashlisted with 5593). Prerequisite: 4493 or permission from instructor. Topics include basic orbital mechanics, orbit determination, perturbations, numerical techniques, interplanetary transfer, influence of space environment, atmospheric re-entry, Space vehicles subsystems design; propulsion, attitude determination and control, structural design, thermal control, power and telecommunications. Investigation into mission design concepts and consideration. No student may earn credit for both 4593 and 5593. (Sp)

4613 Multimedia in Engineering (Slashlisted with 5613). Prerequisite: junior, senior, or graduate standing or permission of instructor. Introduces engineering students to electronic media. Topics will center on engineering and how electronic media can be used by engineers to illustrate technical topics such as three-dimensional motion, data visualization, time-based physical actions, and real-time simulations. Emphasizes developing effective interactive media programs for all engineering disciplines. No student may earn credit for both 4613 and 5613. (F)

4623 Systems Engineering. Prerequisite: 2223, concurrent enrollment in 4273. Aerospace systems engineering will prepare aerospace or other engineers who may work in the aerospace industry to understand, analyze, and design overall aircraft and spacecraft systems, including ground operations systems. To include guest lectures from the aerospace industry who will...
introduce real world applications of aerospace systems engineering, and a
team project relevant to aerospace systems engineering. (F)

4802 Robotics Laboratory. Prerequisites: 3112, Computer Science 3133 or
equivalent, or graduate standing. Hands-on studies of robot systems with
emphasis on semi-autonomous mobile robots. Mechanical, electrical and
computational features of robots will be investigated. Laboratory. (F)

G4812 Dynamics and Controls Laboratory. Prerequisite: 3112 or equivalent
or graduate standing. May be repeated with change of project; maximum
credit four hours. Objectives are to teach the implementation of instrumentation
and controls for mechanical systems and explore design factors of the control
of mechanical systems. Laboratory (Sp)

G4822 Fluid and Thermal Laboratory. Prerequisite: 3173, 3803; 3122 or
equivalent or graduate standing. May be repeated with change of content;
maximum credit six hours. Experimental studies in heat transfer or fluid
mechanics. Laboratory (F)

G4832 Nondestructive Evaluation of Materials. Prerequisite: 3112 or
equivalent or graduate standing; Engineering 2313. Principles and practices of
nondestructive determination of properties and integrity of solids. Topics
include: ultrasounds, liquid penetrants, magnetic particles, eddy current,
electron exoeision, thermography and acoustic emission. Laboratory (Irreg.)

4971 Seminar (Slashlisted with 5971). Prerequisite: senior standing. May be
repeated without limit; maximum credit one hour for a B.S. degree. Recent
developments in selected subjects in aerospace and mechanical engineering
presented by invited experts from on and off campus. No student may earn
credit for both 4971 and 5971. (F, Sp)

4980 Undergraduate Research Studies. 1 to 3 hours. Prerequisite:
permission of instructor. May be repeated; maximum credit six hours. Work
with various faculty members on individual research projects. The nature of the
research and the hours credit varies. (F, Sp, Su)

G5023 Elastic Stress Analysis. Prerequisite: 3143 and Mathematics 3113; or
permission. Theory of stress for continuous media, large displacement strain
theory, stress-strain relations for elastic media, plane elasticity; application of
theory to modern engineering problems. (F)

G5053 Elastic Plate Structures. Prerequisite: 3143, Mathematics 3113.
Cylindrical and biaxial bending; axisymmetric bending of circular plates;
general equations for arbitrary platform shape; rectangular plates; plates on
elastic foundations; plates of various shapes; approximate methods of analysis;
anisotropic plates; combined lateral and in-plane loading, including buckling;
large deflections. (Irreg.)

G5063 Composite Materials. Prerequisite: 3143 or permission. Nature and
scope of composite materials; stress-strain relations and strength of a single
layer of a laminated composite; laminated composite-material beams, plates
and cylindrical shells; micromechanics and characterization of stiffness, fracture
and transport properties; applications and optimal design. (Irreg.)

G5083 Engineering Acoustics. Prerequisite: 3413, Engineering 3223.
Acoustic wave motion, the radiation of sound, scattering of sound, sound
waves in ducts and rooms, acoustic noise control. (Irreg.)

G5163 Turbomachinery. Prerequisite: 3153 or permission. Energy transfer
between a fluid and a rotor; flow of fluids in turbo machines; centrifugal
pumps and compressors; radial and axial flow turbines, axial flow compressors
and pumps; comparison of types. (Sp)

G5203 Bioengineering Principles (Crosslisted with Chemical Engineering
5203). Prerequisite: Engineering 2113 and 2613, and Mathematics 3113.
Principles of bioengineering for the areas of the biomechanics of solids and
fluids, mass transfer, biomaterials, electrical networks, imaging, and ionizing
radiation as they apply to the human body. (Alt. F)

G5213 Biomechanics I (Slashlisted with 4213). Prerequisite: 3143 and 3153
or permission of instructor. Introduction to physiological systems with emphasis
on structure and function of tissues and organs; application of continuum
mechanics to understanding of tissue and organ behavior at microscopic and
macroscopic levels; viscoelastic and solid biomaterials. No student may earn
credit for both 4213 and 5213. (F)

G5223 Biomechanics II (Slashlisted with 4223). Prerequisite: 3143 and 3153
or permission of instructor; Biofluid mechanics; non-Newtonian behavior of
blood and body fluids; basic mechanical properties of muscle, bone,
cartilage, and other living tissues; application of continuum mechanics to
circulation; growth and change of living organs in response to stress and strain.
No student may earn credit for both 4223 and 5223. (Sp)

G5233 Biomaterials (Slashlisted with 4233). Prerequisite: junior or senior
standing in the College of Engineering and permission of instructor.

Introduction to materials used in biomedical environment, the design and use
of implantable materials, such as metals, polyethylene, ceramics, and
composites, biocompatibility, test methods, and tissue growth on biomaterials.
No student may earn credit for both 4233 and 5233. (Sp)

G5253 Implantable Devices (Slashlisted with 4253). Prerequisite: 3143.
Provides student with a basic understanding of design, testing and application
of implants/implantable devices and current development of implantable
prostheses and devices in heart, cardiovascular system, soft tissue, bone and
joint replacements, sensory system (ear and eye), and drug delivery system. No
student may earn credit for both 4253 and 5253. (Irreg.)

G5263 Computer Integrated Manufacturing (Slashlisted with 4263).
Prerequisite: graduate standing in engineering. A general understanding on
computer-based methods for manufacturing and assembly of mechanical
products. The concept and methods for product manufacturing and assembly
will be introduced from design viewpoint. No student may earn credit for both
4263 and 5263. (Sp)

G5283 Concurrent Design and Manufacturing (Slashlisted with 4283).
Prerequisite: graduate standing in engineering. The general concepts and
methods in performing concurrent design and manufacturing for product
development. Fundamental design theories and methods such as utility theory,
state transition matrix method, game theory, and system life-cycle modeling
and optimization will be introduced. No student may earn credit for both
4283 and 5283. (F)

G5293 Transport in Biological Systems (Crosslisted with Chemical
Engineering 5293). Prerequisite: Chemical Engineering 3123 or permission
of instructor. Theoretical and practical aspects of transport phenomena in living
organisms and biomedical technologies. Applications include hemorhology,
drug delivery, extracorporeal circulation, and artificial organs. (Irreg.)

G5333 Thermodynamics and Combustion. Prerequisite: Engineering 3223
or permission. Thermodynamics of non-reacting and reacting mixtures,
chemical equilibrium, flame temperature, transport processes in combustion,
chemical kinetics, fuels and their combustion properties, premixed and
diffusion flames, deflagrations and detonations, practical combustion systems,
pollutant emissions. (F)

G5413 Processes in Fluid Mechanics. Prerequisite: 3153 or permission of
instructor. Introduction to the mechanics of non-Newtonian fluids and polymer
processing techniques such as extrusion, molding and coating will be analyzed
at the fundamental and applied level. Some of the computational methods
will be discussed. (Irreg.)

G5493 Space Sciences and Astrodynamics (Slashlisted with 4493).
Prerequisite: Physics 2524, Mathematics 2443. Selected topics in astrophysics,
the solar system; basic orbital mechanics, orbit determination and maneuvers,
perturbations, numerical techniques, rendezvous and proximity operations,
the N-body problem and approximations, interplanetary transfers. Design
considerations. No student may earn credit for both 4493 and 5493. (F)

G5513 Flight Controls (Slashlisted with 4513). Prerequisite: 3333, 4383.
Classical control theory with applications to aircraft flight control system design.
No student may earn credit for both 4513 and 5513. (F)

G5553 Mechanical Behavior of Materials. Prerequisite: 3143 or 3523,
Engineering 2313 and Mathematics 3113; or permission. Combined stresses,
failure theories, ductile and brittle fracture, creep and thermal effects, fatigue,
impact, damping, homogenous and composite materials. (F)

G5573 Advanced Engineering Analysis I. Prerequisite: Mathematics 3113.
Vector and tensor analysis. Calculus of variations followed by variational
methods and/or the method of weighted residuals. Integral equation theory. (F)

G5583 Advanced Engineering Analysis II. Prerequisite: 5573 or permission.
Self-adjointness in advanced engineering analysis, such as lie theory for ordinary
differential equations; eigenvalue problems and spectral analysis; transform
methods; solution methods for partial differential equations. (Irreg.)

G5593 Space Systems and Mission Design (Slashlisted with 4593).
Prerequisite: 4493 or permission from instructor. Topics include basic orbital
mechanics, orbit determination, perturbations, numerical techniques,
interplanetary transfer, influence of space environment, atmospheric re-entry,
Space vehicles subsystems design; propulsion, attitude determination and
control, structural design, thermal control, power and telecommunications.
Investigation into mission design concepts and consideration. No student may
earn credit for both 4593 and 5593. (Sp)

G5613 Multimedia in Engineering (Slashlisted with 4613). Prerequisite:
graduate standing or permission of instructor. Introduces engineering students
to electronic media. Topics will center on engineering and how electronic media
can be used by engineers to illustrate technical topics such as three-dimensional
G5903 Fundamental Fluid Dynamics. Prerequisite: 3153, 5573 or concurrent enrollment, or permission. Basic laws of fluid motion; Navier-Stokes equations, kinematics of the flow field, vorticity and circulation, basic theorems for inviscid, incompressible flows, potential-flow application, exact solutions. (F)

G5913 Viscous Fluid Dynamics. Prerequisite: 5903 or permission. Fundamental exact solutions of viscous flow; Stokes’ flow, boundary-layer flow, drag and resistance to motion, elements of heat transfer, effects of compressibility, thin shear layers, jets and wakes, elements of turbulence. (Sp)

G5933 Aerelasticity. Prerequisite: 3143 or equivalent, 3253. Review of structural and aerodynamic theorems. The steady aerodynamic equations and solution methods; divergence and rolling effectiveness. The flutter equations and solution methods; panel flutter; the transonic flutter problem. (Irreg.)

G5943 Rocket Propulsion. Prerequisite: 3803 or permission. Rocket history, nozzle theory and thermochromistry; propellants, liquid engines, solid engines, heat transfer, trajectory analysis, preliminary design of rocket vehicles and advanced rocket concepts. (Irreg.)

G5953 Turbulence I. Prerequisite: 5913 or permission. Description of turbulence; Reynolds-averaging, momentum equations and energy budgets for the mean flow and fluctuations. Mean velocity profiles, skin friction and spreading rates for shear flows in various geometries, origin of turbulence from flow instability. (Irreg.)

G5962 Experimental Methods in Fluid Mechanics. Prerequisite: 3122, 5573, 5903 or permission. Theory of basic mechanical, optic and electronic components. Theory of instruments: hot wires, laser doppler anemometers, pressure sensors, visualization techniques, special detectors, data acquisition and analysis. Laboratory. (Irreg.)

G5971 Seminar (Crosslisted with 4971). Prerequisite: graduate standing. May be repeated without limit; maximum credit two hours for master’s or four hours for a doctoral degree. Recent developments in selected subjects in aerospace and mechanical engineering presented by invited experts from on and off campus. No student may earn credit for both 4971 and 5971. (F, Sp)

G5973 Computational Heat and Fluid Flow. Prerequisite: 3173 and Engineering 3723, or permission of instructor. Computational techniques to solve conservation equations representing heat transfer, mass transfer, and fluid flow processes. The topics include discretization methods for multi-dimensional diffusion and convection problems, and pressure-correction algorithms. Applications involving comprehensive computer codes are also covered. (Sp)

G5980 Research for Master’s Thesis. Prerequisite: graduate standing, two to nine hours; maximum credit applicable toward degree, six hours. (F, Sp, Su)

G5983 Computational Fluid Dynamics. Prerequisite: 5573, 5903, 5973, or permission of instructor. Methods for the numerical solution of the Euler, Navier-Stokes and parabolized Navier-Stokes equations, (Irreg.)

G5990 Special Projects. 1 to 9 hours. Prerequisite: graduate standing and permission of instructor. May be repeated but total credit applicable to any degree may be limited. Individual or group R & D projects involving original laboratory, analytical or theoretical investigations and syntheses. Specific objectives and work requirements established by prior agreement of the instructor and student. Students should expect to spend at least sixty hours for each credit hour and to submit appropriate reports or papers. (F, Sp, Su)

G6033 Fracture Mechanics. Prerequisite: 5023 or equivalent. Elastic crack-tip stress field, crack-tip plastic zone, energy principles, plane strain fracture toughness, crack opening displacement criterion, fatigue crack-propagation and applications. (Irreg.)

G6213 Dynamics of Real Gases. Prerequisite: 5573, 5923 or permission. Equilibrium gas properties and equilibrium flow. Rotational, vibrational and chemical rate processes and flow with nonequilibrium processes. Applications such as chemical laser flow. (Irreg.)

G6333 Combustion Processes II. Prerequisite: 5333 or permission of instructor. Heterogeneous reaction kinetics, liquid droplet and spray combustion, solid particle combustion, kinetically controlled phenomena, fire-related problems, pollutant generation and control. (Irreg.)

G6663 Advanced Finite Element Methods (Crosslisted with Civil Engineering 6663). Prerequisite: 5763. Selected topics such as: nonlinear material problems, plasticity, creep (visco-plasticity), fracture, etc.; geometrically nonlinear problems; large displacements and structural stability; dynamic problems and analytical solution procedures; soil-structure interactions, application of the finite element method to fluid and heat transfer problem. (Irreg.)

G6970 Advanced Topics in Aerospace and/or Mechanical Engineering. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit nine hours for a master’s and twelve hours for a doctoral degree program. Selected advanced topics in all aspects of aerospace and/or mechanical engineering.

G6980 Research for Doctor’s Dissertation. (F, Sp, Su)
Aerospace Studies (AERO)

1011 Introduction to Aerospace Studies. Prerequisite: departmental permission; concurrent enrollment in 1300. A study of the doctrine, mission and organization of the United States Air Force. Emphasis is placed on the purpose of strategic offensive and defensive forces and their inherent relationship to the function and employment of aerospace power. (F)

1021 The Air Force Today. Prerequisite: departmental permission; concurrent enrollment in 1300. A study of aerospace defense, missile defense, general purpose forces and aerospace support forces. The mission, resources and operation of tactical air forces, with special attention to limited war; and a review of Army, Navy and Marine general purpose forces. (Sp)

1300 Leadership Laboratory. Prerequisite: concurrent enrollment in 1011, 1021, 2011, 2021 or permission. May be repeated a maximum of three times. Designed to introduce the student to the customs and courtesies associated with the Air Force. Also provides a practicum for the initial development of leadership and command abilities. (F, Sp)

2011 The Evolution of USAF Air and Space Power I. Corequisite: 1300. The development of air power to include the technological advanced which made military aviation possible. American attitudes toward aviation, evolution of pursuit, reconnaissance, bombardment and ground support tactics, the interwar years (1919-1939), air power during World War II, the Berlin Airlift, the Korean War, the development of an independent Air Force, and the Air Force build-up/force modernization of the 1950s. (F)

2021 The Evolution of USAF Air and Space Power II. Corequisite: 1300. A study of the development of airpower in the post-World War II period. Special emphasis is placed upon airpower and Cold War strategies, the Cuban Missile Crisis, Airpower in Southeast Asia, the 1970s—a decade of change, the 1980s force modernization, the changing balance and role of airpower relative to today’s major military powers. An introductory study of leadership, team building, and problem solving. (Sp)

3013 Principles of Air Force Management. Prerequisite: departmental permission. An introductory study of the basic concepts and practices of management in the military, private and public sectors. Emphasis is placed upon the principles of organizational communications and the development of oral and written communicative skills. Case studies are used to integrate and extend these principles to actual situations. Concurrent enrollment in 3100 is required. (F)

3023 Leadership and Organizational Dynamics. Prerequisite: 3013 or permission. The study of the fundamentals, traits and techniques of leadership. Included are such topics as job design, motivation, group dynamics, decision making and organizational change. Continued emphasis on the development of communicative skills. Case problems are utilized to relate subject material to managerial principles. Concurrent enrollment in 3100 is required. (Sp)

3100 Management and Leadership Practicum I. Prerequisite: concurrent enrollment in 3013 or 3023. May be repeated once. Practical application of the principles, policies and methodologies associated with management as applied to a broad range of governmental and military situations. Emphasis is placed upon the fundamental managerial functions to include planning, organizing, staffing, directing and controlling. (F, Sp)

3101 American National Security I. Prerequisite: 3023 or departmental permission. Conceptual study of the U.S. national security policy examining the formulation, organization and implementation of national security; the context of national security; the evolution of strategy; and the management of conflict. Included is a block of instruction on the military justice system. Concurrent enrollment in 4100 is required. (F)

4023 American National Security II. Prerequisite: 4013 or departmental permission. Examines U.S. national security policy in the international setting; arms control and peacemaking efforts; and civil-military interaction. Includes a study of the military profession and officerhood. Designed to provide future Air Force officers with a background in the profession and U.S. national security policy so that they can function effectively in today’s Air Force. Concurrent enrollment in 4100 is required. (Sp)

4100 Management and Leadership Practicum II. Prerequisite: 3100 and concurrent enrollment in 4013 or 4023. May be repeated once. A continued practical application of the principles of management and leadership to include the dynamics of group behavior, decision making, communication and the effects of organizational change. Emphasis is given to applications in a variety of organizational, administrative and financial contexts. (F, Sp)

African and African-American Studies (AFAM)

2003 Introduction to African and African-American Studies. Prerequisite: permission of instructor. Introduces students to African and African-American Studies at the University of Oklahoma, and at other institutions of higher education in the U.S. Students will study the major ideas, concepts, problems, issues, research and scholars in the field. Provides career focus and information for students who will major or minor in African and African-American Studies. (F, Sp) [IV-NW]

2113 Africa and the Diaspora. The course introduces students to the study of Africa and the dispersion of African people throughout the New World. Focus is placed upon the geographical and historical understanding of the continent of Africa and the identification of central causes of underdevelopment within the continent. (Irreg.)

2913 Perspectives on the Digital Divide: Theory and Application. This course focuses on the issue of the digital divide and the impact of computer illiteracy in today’s society, with special focus on developing regions of Africa. The lack of access to communication technologies, including personal computers and the internet, is examined as an obstacle to the economic, social and political development in these regions. Focus is directed to theory and application. (Irreg.)

3123 West African & African-American Experiences. Prerequisite: any course that focuses on African or African American content, or English 1213. Provides a basis for understanding discourse concerning the future of West Africa and Africans in the American Diaspora. Examines significant issues concerning West African people, their past, their priorities, and agendas. (Irreg.)

3133 Introduction to African Aesthetics. Prerequisite: any course that focuses on African or African American content, or English 1213. Explores the philosophy, culture, and aesthetic expressions of African Americans before, during, and after enslavement through a comparison of African and African American culture. Emphasis is placed upon developing a body of knowledge and analytic skills that will enable students to deepen their understanding of traditional and contemporary culture practices by the African American community. (Irreg.)

3313 A Social History of Black Military Life: 1877-1895. Prerequisite: any course that focuses on African and African American content, or English 1213. Course presents a social history of black military life during the post-Reconstruction era. Examines the nexus between the common attitude toward African Americans in American society and American military racial policy during the post-Reconstruction era. (Irreg.)

3323 Black Military Presence in the American West: 1866-1891. Prerequisite: any course that focuses on African and African content, or English 1213. Emphasized the_quota of African and African-American content, or English 1213. Examines and examines African American military service and heroism to this nation from 1866 to 1891 in Texas, Indian Territory, New Mexico, the Dakotas, Montana, and Arizona. The course is reading and writing intensive. (Irreg.)

3413 African-American Education in the United States. Prerequisite: any course that focuses on African or African-American content, or English 1213. Examines two major historical features of African American education: the ways in which the African American community has sought to educate itself and the ways in which white Americans have sought to educate African Americans. Emphasis is placed upon the purpose of education, and alternative visions of educational possibility. (Irreg.)

3423 African-American Men. Prerequisite: any course that focuses on African and African-American content, or English 1213. Examines the Afro-United States. Students will study the major ideas, concepts, problems, issues, research and scholars in the field. Provides career focus and information for students who will major or minor in African and African-American Studies. (F, Sp) [IV-NW]

3433 African American Women. Prerequisite: any course that focuses on African or African American content, or English 1213. Examines the history and experience of African American women, focusing on race, gender, and socio-economic status and the corresponding effects of these forces in their lives. (Irreg.)

3443 African American Athlete. Prerequisite: any course that focuses on African or African American content, or English 1213. Examines the history, participation, and the influences of the black athlete. Provides a forum for discussion of the contemporary issues related to the African American athlete. (Irreg.)

3513 AFAM Research Methods. Prerequisite: AFAM major or minor, junior standing. This course is designed to introduce students to research methods in African and African American studies. Qualitative and quantitative research methods are presented.
methods are studied, discussed, and undertaken. Course design stresses the importance of using both methods to cross-validate findings. (Irreg.)

3613 Visual Culture and African American Identity: 1895-1939. Prerequisite: any course the focuses on African or African American content, or English 1213. Examines the visual commodities of black and white cultural producers to analyze issues of caste and class status, gender, and sexuality that historically and currently inform competing notions of blackness within the public sphere. (Irreg.)

4003 Senior Seminar in African and African-American Studies. Prerequisite: completion of twelve hours of required AFAM or AFAM-related courses. Provides students the opportunity to review and integrate their study in African and African-American courses. Students will be involved in academic experiences that facilitate the translation from theory to practice. Experiences will vary depending on the instructor. (Sp) [V]

4010 Special Topics in African and African-American Studies. 1 to 3 hours. Prerequisite: junior standing and any course covering African and African-American issues. May be repeated with change of content; maximum credit nine hours. Designed to permit the study of specific and changing issues and problems in AFAM Studies. Course will also be used for special workshops, conferences, seminars, etc. and individually planned and supervised activities focused on specific areas of concern. (Irreg.)

4113 African Civilizations. Prerequisite: any course that focuses on African or African American content, or English 1213. Examines major ancient and recent African civilizations. Includes study of state formation, kinship, government, iconography, ritual, habitat and dance, music, and art. (Irreg.)

4213 African Dance. Prerequisite: any course that focuses on African or African American content, or English 1213. Examines various essential dance movements from the African Diaspora. Theory and praxis meet in an effort to better understand the culture and language of dance amongst African people. (Irreg.)

4223 African Dance II. Prerequisite: any course that focuses on African or African American content, or English 1213. The course is designed to deepen understanding of African dance through a combination of praxis, theory, and choreography. In this course the Umfundalai technique is taught at an accelerated pace. Students are challenged to perform advanced combinations of this dance technique. Students conduct research on African dance and African dance aesthetics. Theoretical applications of African aesthetics to African dance are made. Students explore aesthetic theory, relevant historical information and traditional African cultural philosophy through choreography. (Irreg.)

4233 Blacks & the Movies: Hollywood & Black Independent Film. Prerequisite: any course that focuses on African or African American content, or English 1213. Historical overview of the development of African American cinema. Examines how film has been used to culturally define the parameters of black cultural identity and how black cultural producers promoted alternate constructions of black identity. (Irreg.)

4313 Harlem Renaissance. Prerequisite: any course that focuses on African or African American content, or English 1213. Examines the artistic and literary strandings of African Americans produced during the period between the post-World War I era and the Great Depression. Examines work of individual African American writers and artists. (Irreg.)

4413 Issues in the African American Family. Prerequisite: any course that focuses on African or African American content, or English 1213. The purpose of the class is to explore the pre- and intra-structural components of the African American family using an applied social systems and ecological approach. Great emphasis will be placed on historical and concurrent social, religious, political and economic factors that influence the psyche of both the family and in a broader sense a culture rooted in the Afrocentric paradigm. (Irreg.)

4423 African American Health Issues. Prerequisite: any course that focuses upon African or African American content, or English 1213. Examines health problems, health status, and health behavior of African American men and women. A life course perspective is emphasized from birth to later life. It is assumed that being African American predisposes persons to health problems that increase in the context of disease or that influence health based on the diversity of cultural beliefs, values, and practices. Access to health services will be addressed. (Irreg.)

4433 Women of the Diaspora. Prerequisite: any course that focuses on African or African American content, or English 1213. A comparative study of the complex roles of women of African descent in cross-cultural perspective. Examines the issue in the socio-cultural contexts of South Africa, United States, and the Caribbean. Topics include gender relations, impact of urbanization, class status, and Diasporan women as culture workers. (Irreg.)

4453 Black/White Relations in America. Prerequisite: any course that focuses on African and African American content, or English 1213. Examines race relations in general and black/white relations in particular; creative race relations problem-solving and decision-making strategies; and self-awareness as it affects race relations. (Irreg.)

4613 African American Music Traditions. Prerequisite: any course that focuses on African or African American content, or English 1213. Examines African cultural retentions in African American music. Emphasis is placed upon traditional African rhythms, attitudes, themes, and sounds. Investigates how these devices inform African American musical traditions. (Irreg.)

4623 Hip Hop Culture and Contemporary America. Prerequisite: any course that focuses on African or African American content, or English 1213. Historical inquiry into behavioral and sociopolitical trends of hip hop culture. Attempts to codify and recognize dominant cultural attitudes, concepts and paradigms as global phenomena shaping understanding of contemporary African American character, identity, and culture. (Irreg.)

4633 African American Religious Traditions. Prerequisite: any course that focuses on African or African American content, or English 1213. An anthropological and historical inquiry into the nature of the religious experience of Africans enslaved and involuntarily brought to the United States. Emphasis is placed upon the identification and understanding of the central cultural and religious practices and products of black peoples’ experiences of the holy. (Irreg.)

4713 Afrocentric Thinking and the Civil Rights Movement. Prerequisite: any course that focuses on African or African American content, or English 1213. Examines afrocentric thinking and identifies key afrocentric patterns and strategies within the civil rights movement. Students will analyze African American leadership and how leaders brought afrocentric thinking to the forefront. (Irreg.)

4723 Leadership in the African American Community. Prerequisite: any course that focuses on African or African American content, or English 1213. Comprehensive analysis of leadership skills and development from afrocentric perspective applied historically for social change; how these strategies are enacted for empowerment within contemporary society. (Irreg.)

4733 Civil Rights Law: Employment and Education. Prerequisite: any course that focuses on African or African American content, or English 1213. Analyzes civil rights law in employment and education. Focuses on laws that address discrimination, equal employment opportunity, equal educational opportunity and affirmative action, as well as the legal foundation for diversity initiatives. Examines regulations of enforcement agencies, and agency grievance procedures, including selected court cases. (Irreg.)

4990 Independent Study. Prerequisite: permission of instructor. Permits the student to study in depth, under the guidance of the instructor, particular and specialized topics of interest to the student and within the expertise of the instructor. Generally, students and the instructor meet to determine the nature of independent study, schedule progress reports and meetings, timelines for the submission of assignments, nature of the evaluation process and culminating effort or activity. (F, Sp, Su)

Anthropology (ANTH)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

1113 General Anthropology. An introduction to the anthropological way of thinking about biological evolution, fossil hominids, prehistory, the rise of civilization, ecology, war, the energy crisis, racism, sexism and other contemporary controversies. Emphasis is placed on cross-cultural, linguistic and relativistic perspectives. (F, Sp, Su) [III-SII]

1203 Language Across Cultures (Crosslisted with Linguistics 1203). Theories of language family origins and their relationship to human migration; types of human languages; linguistic concept of genetic relatedness; writing systems development; non-Western sociolinguistic and usage phenomena; cultural and scientific importance of endangered languages; how languages become endangered; factors involved in preservation. This course may not count for major credit. (Sp) [IV-NW]

1253 Folklore and Folklife. Introduces the academic study of folklore and folklife by introducing four key concepts: Tradition, community, art and performance. Verbal folklore, material culture, performance genres and...
customary knowledge will be examined. Issues of cultural diversity and historical change will be addressed. Special emphasis will be placed on exploring traditional cultures in the United States and Europe. (F) [IV-AF]

1413 Great Discoveries in Archaeology. Introduces students to the accomplishments of ancient civilizations around the world. A brief overview of archaeological methods and research and of the precursors of civilizations. Concentrates on major civilizations of the world including Mesopotamia, Egypt, sub-Saharan Africa, India, China, Southeast Asia, Mesoamerica, South America, and the North American Midwest. (F) [IV-NW]

1521 Prehistoric Foundations of Old World Civilization. The history of humans throughout the Holocene, Paleolithic, Mesolithic, Neolithic, Bronze and Iron Ages. Emphasis is placed upon the prehistory of Europe, although Africa and Asia are included wherever a broader knowledge contributes to a better understanding of the prehistoric foundations of Western European cultures. (F) [III-S]

1613 Indian Peoples of Oklahoma. A general introduction to the traditional cultures and current condition of the thirty-eight diverse Native American groups now resident in Oklahoma. (F, Su) [IV-NW]

1713 Beginning American Indian Languages I (Crosslisted with Native American Studies 1713). May be repeated with change of language; maximum credit 12 hours. Introduction to the structure of an American Indian language with special attention to its phonology, morphology, and syntax. Conversational practice, vocabulary-building and the history and culture of the native speech community also are emphasized. (F, Sp) [I-FL]

1723 Beginning American Indian Languages II (Crosslisted with Native American Studies 1723). Prerequisite: 1713 in the native language listed as course topic. May be repeated with change of language; maximum credit 12 hours. Introduction to the structure of an American Indian language with special attention to its phonology, morphology and syntax. Conversational practice, vocabulary-building, and the history and culture of the native speech community also are emphasized. (F, Sp) [I-FL]

1823 Religion in Everyday Life. World religions are surveyed using an anthropological approach. Students are introduced to social and cultural analyses of religious concepts and behaviors using a comparative approach. The place of religion in everyday life is considered from this cross-cultural, anthropological perspective. (F) [IV-NW]

2113 Introduction to Archaeology. To acquaint the beginning student with the discipline of archaeology as it is now practiced within the science of anthropology. (F, Sp) [III-S]

2203 Peoples of the World. A survey of world cultures, dealing with representative hunting and gathering, horticultural, pastoralist and complex societies. Designed to familiarize the student with the full range of variation of human behavior. (F, Sp, Su) [IV-NW]

2243 Introduction to Sociocultural Anthropology. Introduction to theory and practice in sociocultural anthropology. Review key theoretical approaches from the twentieth century, explore how they are applied ethnographically in the study of social institutions—economic, political, familial, religious—and cultural contexts, and critique them. Selected topics and issues will be explored from different theoretical perspectives. (F, Sp)

2301 General Linguistics (Crosslisted with Linguistics 2301). Humanistic and formal study of natural languages: how they are similar to and different from one another in their use of speech sounds, logical structures and mechanisms that integrate events, objects and speakers in spatio-temporal contexts. The relationship between language and culture; language acquisition and language change. (F, Su) [I-O]

2313 Language Use. An introduction to anthropological approaches for understanding language use in social context. These approaches include: sociolinguistics, the ethnography of speaking, symbolic interactionism, interpretive anthropology and discourse analysis. Both western and non-Western examples will be used to illustrate these approaches. (F, Sp) [I-O]

2501 Introduction to Biological Anthropology. Prerequisite: 1113. The student is exposed to historical, theoretical and applied perspectives of biological anthropology. Concentration on human biocultural evolution; human adaptability; variation, and genetics; primatology and primate behavior. The major emphasis is on understanding modern man as a product of biological, cultural, behavioral and environmental interactions throughout his/her evolutionary development.

2613 Native Peoples of North America. An introduction to the native societies and cultures north of Mexico from pre-Columbian times to the present. (Sp, Su) [IV-NW]

2733 Intermediate American Indian Languages (Crosslisted with Native American Studies 2733). Prerequisite: 1723. May be repeated with change of language; maximum credit 12 hours. A systematic review of the structure of an American Indian language. Syntactic control and vocabulary expansion are emphasized. Conversational practice and traditional oral texts are used to develop proficiency. (F, Sp)

2953 Topics in Anthropology. May be repeated with change of topic; maximum credit nine hours. Topics will vary. Acquaints the student with a topic within a subdiscipline of anthropology including anthropological theory and methods. (Irreg.)

Unless otherwise noted, the prerequisite for courses in anthropology numbered 3000–4999 is 1113 or junior standing.

3033 Phonetic Description (Crosslisted with Linguistics 3033). Prerequisite: 2303. Study of the basic principles in forming the phonetic description of human speech. (Sp)

3043 Mythology and Folklore (Crosslisted with Modern Languages and Literatures 3043). Prerequisite: none. The nature and function of myth and folklore in human societies, and the uses to which the study of folklore have been put by anthropologists in both functional and culture-historical analyses of preliterate societies. (F, Sp) [IV-WC]

3053 Grammar: Phonology (Crosslisted with Linguistics 3053). Prerequisite: Anthropology or Linguistics 2303. Description of human speech sounds. Analysis of speech sound systems; study of the varied ways human communities use speech sounds to convey and share information. Principled development of writing systems for unwritten languages. Includes the description and analysis of non-Indo-European language materials. (F, Sp)

3063 Language and Culture (Crosslisted with Linguistics 3063). Prerequisite: 2303. The relationships between language and the rest of culture, with emphasis on diachronic as well as synchronic problems. Such crucial issues as the limitation of language on thought and perception and language and conceptualization are also considered. (Sp)

3143 Peasant Societies. Prerequisite: 1113 or junior standing. The anthropological approach to peasanties, peasants and peasant societies. Both theoretical and substantive studies will be examined. (Irreg.)

3263 Studies in Ethnography. Prerequisite: 1113, or 2203 or 2243. Examines the relationship between theory and method in selected ethnographic studies. (Irreg.)

3333 The Aztec World. Prerequisite: 1113 or junior standing. An in-depth analysis of Aztec culture (circa 1519), history, customs, and life-ways leading to an appreciation of a starkly different world view and culminating in a research paper based on primary sources. (F) [IV-NW]

3353 Syntax (Crosslisted with Linguistics 3353). Prerequisite: 2303. An introduction to the fundamental concepts of Chomskyan syntax. Includes theory of categories and constituents, basic syntactic relations, case theory, and binding theory. (F)

3423 Anthropology of Religion. Prerequisite: 1113 or junior standing. A consideration of the nature and role of religion in small-scale societies. Emphasis will be given to the relationship of the various anthropological approaches to religion with the intellectual history of anthropology as a discipline. (Irreg.)

3453 Contemporary Native American Issues. Prerequisite: 1613 and junior standing, or permission of instructor. A survey of the social, political and economic issues of modern Native American groups. The relationship between native tribal cultures and American economic and government interests will be examined. (Irreg.) [IV-NW]

3503 Oklahoma Prehistory. Prerequisite: 1113 or junior standing. Traces the evolution of Oklahoma's native people from specialized early hunters of 12,000-30,000 years ago to protohistoric villagers representing links to contemporary Indian tribes. The emphasis is on adaptation to diverse environmental settings and evolution of complex societies. (Irreg.) [IV-NW]

3553 Peoples of the Pacific Islands. Prerequisite: 1113 or junior standing. An ethnographic and historical survey of the various peoples of the Pacific (Indonesia, Australia, Melanesia, Micronesia, Polynesia) with emphasis on the peopling of Oceania and varying cultural and social developments and elaborations on an insular environment. (F, Sp) [IV-NW]

3713 Native American Artistic Traditions. Prerequisite: 1613 or junior standing. Covers the artistic traditions of Native Americans and how these traditions offer insight into the thinking, lifeways, beliefs, and philosophies of differing groups of native peoples. Artists, orations, music and dance will be explored, as well as kinship, infant care, concepts of death and self-respect. (Sp)

3743 American Indian Justice in Cultural and Western Law. Prerequisite: 1613 or junior standing. Clarification and investigation of American Indian tribal law as it compares and contrasts with western law. Also includes considerations of kinship, social and political organization, and religious influences on traditional tribal law. (Sp)
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3803 Asian Prehistory. Prerequisite: 1113 or junior standing. A survey of the archaeological remains from the Asian continent beginning with the Paleolithic and continuing through to the beginning of the Historic period. Some emphasis will be placed on the development of Chinese civilizations. (Irreg.) [IV-NW]

3843 South Asia. Prerequisite: 1113. Anthropology of cultures and nations of the Indian subcontinent, with emphasis on the diversity of south Asian cultures, the roots of sociocultural phenomena in the history of the region, ways deep-rooted cultural understandings are manifested in everyday life, and the rapid changes and challenges now being experienced by the people and nations of south Asia. (Irreg.) [IV-NW]

3883 Archaeology of South America. Prerequisite: 1113 or junior standing. A survey of the archaeological remains from South America with special emphasis on pre-Columbian civilization. (F, Sp) [IV-NW]

3893 Maya, Aztec and Inca: High Civilizations of Ancient America. Prerequisite: 1113 or junior standing. An archaeological and ethnohistorical study of the pre-Spanish cultures of Mesoamerica and the Central Andes giving primary emphasis to the Maya of Yucatan, the Aztec of Mexico and the Inca of Peru. (F, Sp) [IV-NW]

3930 Fieldwork in Anthropology. 1 to 8 hours. Prerequisite: permission of instructor or advisor. May be repeated, maximum credit six hours. Designed to teach the student field methods in anthropology, ethnology or linguistics through actual participation in a field program. The subject matter depends upon the specific summer session and varies from year to year. The course is given during the summer session for a period of eight weeks. (Su)

3940 Internship in Archaeology. Prerequisite: 1113, 2113, 3930. May be repeated; maximum credit six hours. Designed to provide advanced archaeological field and/or laboratory training for students who already have some archaeological field and/or laboratory experience. Internships are arranged on an individual basis with professional archaeologists. Students must meet criteria for acceptable performance and submit a final report. (F, Sp, Su)

3943 Psychological Anthropology. Prerequisite: 1113 or junior standing. Survey of anthropological studies that make systematic use of psychological concepts and methods; emphasis on the relationship between individual experience and sociocultural phenomena; how the history of the field has influenced current methodological approaches; and topics of interest. (Irreg.)

3950 Internship in Cultural Anthropology. Prerequisite: 1113 and six credit hours in cultural anthropology. May be repeated; maximum credit six hours. Designed to provide field training in cultural anthropology. Internships are arranged on an individual basis with professional cultural anthropologists or with professionals working in a setting in which cultural anthropology research can be performed. Students must meet criteria for acceptable performance and submit a final report. (F, Sp, Su)

3953 Proseminar in Anthropology. Prerequisite: 1113 or junior standing. May be repeated; maximum credit six hours. Topics will vary and are intended to acquaint undergraduate majors with subdisciplines through specialized study involving anthropological theory, methodology, the preparation, development and writing of reports. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Honors Reading will provide students with the opportunity to develop an appropriate body of reading materials on topics not covered in detail in routine coursework. Students will be obliged to assume the primary initiative in selecting the topic, compiling the bibliography and completing the reading, and will report their progress in weekly sessions to their instructor. Credit will be given in this course only after an intensive oral examination. (F, Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The topics addressed in this course will cover highly circumscribed areas of anthropological inquiry which are intensively investigated during the course of the semester. Originality of research and approach will be required and each student will be expected to contribute to the proceedings as a relatively mature scholar. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for gifted honors candidates to work at a special project under the guidance of a professor in the student's major department. (F, Sp)

G4003 Museum Anthropology I. Prerequisite: 1113 or junior standing. Introduces the student to a wide range of topics and issues in the practice of anthropology in museums. Museums will be examined as cultural, political, and educational institutions. Students will gain exposure to exhibition design, collection curations, and museum operations. (F)

G4023 Museum Anthropology II. Prerequisite: 4003. Consideration of the philosophical and practical issues of education programs in museum settings. Case studies in community-museum relations. Planning and development of exhibit and program components. Policies and procedures or curatorial practice for collection preservation and documentation. (Sp)

4033 Story, Performance, Event. Prerequisite: 2303 and junior standing. Covers the verbal art and performance aspects of linguistic anthropology. Focuses on oral storytelling as we have come to understand it and will have as its main concern how people tell stories. Students will get an overview of verbal art and performance where and when storytelling occurs. (Irreg.)

4053 Morphology (Slashlisted with 5053; Crosslisted with Linguistics 4053). Prerequisite: 3053 and 3353. Introduces and develops theories and concepts of morphology including word formation, derivation, inflection, non-concatenative morphs; covert categories, prosodic phenomena, morphosyntactic categories and clitics. Data from non-Western languages will be prominent. No student may earn credit for both 4053 and 5053. (Irreg.)

4103 People and Plants. Prerequisite: permission of instructor. Examines the direct relationships between people and plants, focusing on traditional peoples of the world. Topics include paleoethnobotany, folk classification, agriculture, hallucinogens and medicines. (Irreg.) [III-SS]

4113 Anthropological Theory. Prerequisite: senior standing and anthropology major. Important historical and contemporary ideas and theories in anthropology. Content varies by semester. (Irreg.) [V]

4163 The Study of Material Culture (Slashlisted with 5163). Prerequisite: 1113 or junior standing. Focuses on the study of the things people make and the broader social contexts in which objects are used, circulated, made meaningful, and consumed. Methods and theories developed in geography, folklore, cultural anthropology, archaeology, and related social sciences will be examined. No student may earn credit for both 4163 and 5163. (F)

4173 Historical Archaeology (Slashlisted with 5173). Prerequisite: 1113 or junior standing. Provides a survey of the approaches to the pre-Columbian archaeological study of the historic period, which in North America covers the past 500 years. The development of historical archaeology and its current practice and uses will be reviewed using case studies from around the world as examples. No student may earn credit for both 4173 and 5173. (F)

G4233 Seminar in Advanced Curatorial Practice. Prerequisite: 4003. Provides opportunities for advanced instruction and practical experience in the curation and utilization of anthropology collections. (F)

4253 The Anthropology of Communities (Slashlisted with 5253). Prerequisite: 1113 or junior standing. Designed to introduce students to the community in applying anthropological field techniques and theory, while gaining training in method and theory in class, students will be given assignments to execute in community settings. Particular emphasis will be placed on ethnicity, gender and seniority as ethnological parameters. No student may earn credit for both 4253 and 5253. (Irreg.)

4303 Women and Development in Africa (Slashlisted with 5303). Prerequisite: 1113 or junior standing. Examines women’s involvement in economic development in Africa. Some consideration will be given to family structure and social stratification, as well as women’s participation in the social, political and economic spheres. Avenues for viable social change will also be considered. No student may earn credit for both 4303 and 5303. (Irreg.) [IV-NW]

4330 Topics in Linguistics (Slashlisted with 5330; Crosslisted with Linguistics 4330). 1 to 4 hours. Prerequisite: nine hours of linguistics. May be repeated with change of content; maximum credit nine hours. Topic areas will vary across theoretical and applied areas of linguistics. Some topics that are appropriate include socio-linguistics, psycho-linguistics, language acquisition, advanced syntax, advanced phonology, field phonetics, pragmatics, and comparative readings of twentieth-century theorists. No student may earn credit for both 4330 and 5330 on the same topic. (Irreg.)

4363 Linguistic Field Methods (Crosslisted with Linguistics 4363). Prerequisite: 2303, 3053, and 3353. An introduction to all phases of linguistic field techniques including training in the selection of informants, the use of recording devices, and most important, the actual collection and analysis of linguistic materials. (Irreg.)

4413 Public Archaeology (Slashlisted with 5413). Prerequisite: 2113. Focus is on the articulation of academic training in archaeology with current federal rules and regulations; and educational outreach concerning archaeological research and goals. Emphasis is on the preservation and management of archaeological resources. No student may earn credit for both 4413 and 5413. (Irreg.)

G4433 Social Organization. Prerequisite: 1113 or junior standing. Concerned with cross-cultural study of social organization with emphasis on kinship and marriage. Treats an area of traditional concern to social anthropologists and
constitutes an introduction to the classic as well as the contemporary methods and theories of this subdiscipline. (Sp)

4473 Historical Archaeological Analysis (Slashlisted with 5473). Prerequisite: 1113, junior standing, and 4173. Students will learn the process of analysis and interpretation of historical archaeological sites. Topics will include the process of identifying a wide range of artifacts and their use in interpreting past lifeways. Lectures will be supplemented with hands-on analysis projects using collections from sites excavated in Oklahoma. No student may earn credit for both 4473 and 5473. (Sp)

4533 Human Ecology of the Humid Tropics. Prerequisite: 1113. Using an ecological anthropology focus, discussion of past and present human use of humid tropical areas—biologically and culturally the world’s most diverse environments. Using a global perspective, reading, lecture, and audio/visual materials will investigate the cultures and societies of indigenous peoples living in human tropical areas of Africa, southeast Asia, the Pacific Islands, and the Americas. (Irreg.)

4550 Linguistic Structures of North America (Crosslisted with Linguistics 4550). 3 to 6 hours. Prerequisite: Anthropology or Linguistics 2303. An examination of the structure of a number of Native American languages which is intended to provide the major in Linguistics or Anthropology with a detailed knowledge of several important Indian tongues.

4553 Human Evolutionary History (Slashlisted with 5553). Prerequisite: 1113 and 2503 or permission of instructor. Biological anthropology course focusing on the subfield of paleoanthropology, concerned with the examination of the origins of modern Homo sapiens. Focus on evolutionary theory and processes of evolutionary change; theory and method of paleoanthropological research; primate archaeological/fossil record, emphasizing the evolution of hominoids and hominins; analysis and interpretation of fossil records; and major trends, issues, and debates in paleoanthropology. No student may earn credit for both 4553 and 5553. (Irreg.)

4623 Approaches to Cross-Cultural Human Problems. Prerequisite: 1113 or junior standing. Introduces students to the complex problems of contemporary global-scale cultures and helps them better understand their place on this global scene. This course will look at specific international issues or problems, and relate them to processes occurring in many parts of the world. (Irreg. IVNW)

4633 Cultures and Communities of Middle America. Prerequisite: 1113 or junior standing. A survey of anthropological studies of cultures, regions, and village communities in Latin America (Mexico, Guatemala, and Belize) with emphasis on Mexico. (Irreg.) IVWC

4653 Ethnology of the Greater Southwest. A survey of Indian tribes in the southwestern United States and northwestern Mexico, their history, development, differentiation and cultural adjustment to the environment. Each of the important tribal groups is examined in detail to offer illustrations for discussions on the more general level. (Irreg.)

4663 Native Peoples of the Plains (Slashlisted with 5663). Prerequisite: 1113 or junior standing. An ethnographic and historical survey of the native peoples of the Plains culture area of North America. No student may earn credit for both 4663 and 5663. (Irreg.)

G4673 Anthropology of the Caddoan People. Prerequisite: 1113 or junior standing. Integrates linguistic, ethnographic, historical and archaeological data to study the origin, spread and character of the Caddoan-speaking tribes who occupied the Plains’ eastern border at the time of the earliest European contact. (Irreg.)

G4693 Native Peoples of the Southeastern United States. Prerequisite: 1113 or junior standing. An in-depth effort will be made to understand the native cultures which originated east of the Mississippi and south of the Ohio. Major emphasis will be given to the “civilized” tribes—Cherokees, Choctawos, Creeks and Seminoles. Also covered will be lesser-known tribes such as the Yuchi, Natchez and Catawbas. Aboriginal conditions and social structure will be emphasized rather than recent history. (Irreg.)

G4713 Statistical Concepts in Anthropology. Prerequisite: 1113 or junior standing. An introduction to anthropological statistics. Emphasis will be placed on anthropological research design and analysis of anthropological data. (Irreg.)

G4763 Archaeological Analysis—Methods, Theory and Practice. Prerequisite: 2113. Devoted to the laboratory phase of analyzing archaeological data derived from survey or excavation. The procedures and methods used for classifying and studying the raw data provided by the fieldwork. Laboratory. (Irreg.)

4793 Computing in Anthropology. Prerequisite: 1113 or junior standing, anthropological major. Designed for anthropology students who wish to master a selection of computer programs used in the collection, analysis, and dissemination of anthropological data. Significant anthropological resources available through the Internet, and basic quantitative and qualitative analysis techniques will be discussed. Students will design and complete a research project to be published on the Internet. (Sp)

4813 Archaeology of North America (Slashlisted with 5813). Prerequisite: 1113 or junior standing. A course in the prehistory of the American Indian. Study of the prehistory of North America north of Mexico. Consideration of the various archeological areas of the continent in terms of the prehistoric sequence of events from the earliest times up to European contact. No student may earn credit for both 4813 and 5813. (Irreg.) IVNW

G4833 Archaeology of the Great Plains. Prerequisite: 1113 or junior standing. A detailed survey of the archaeological remains from the Great Plains from the earliest occupation of the area until the beginning of the historic period. (Irreg.)

4843 Cross-Cultural Study of Sex, Gender and Sexuality (Slashlisted with 5843). Prerequisite: 1113 or junior standing. A consideration of ethnographic material that challenge anthropological understandings of the relationship among sex, gender, and sexuality. Materials will include “third gender” ethnographic material that has emerged in recent years; community and other studies that suggest gender diversity and complexity in communities that we might label “homosexual”; and anthropological studies of transsexual and transgender phenomena. No student may earn credit for both 4843 and 5843. (Irreg.)

G4853 Archaeology of the Greater Southwest. Prerequisite: 1113 or junior standing. A detailed survey of the prehistoric sequence in the American Southwest and northwestern Mexico from earliest times up to the time of European contact. (Irreg.)

4863 Archaeology of the Southeast (Slashlisted with 5863). Prerequisite: 1113 or junior standing. A study of the prehistoric and early historic Native American culture histories. Some attention will be given to historic African and European cultures in the Southeast. Emphasis will be placed on long-term social change and regional trends and colonial transformations. No student may earn credit for both 4863 and 5863. (Irreg.)

4873 Desert Cultures of North America. Prerequisite: 1113 or junior standing. Anthropological study of various cultures, prehistoric and historic, including Indian, Spanish and modern American, as they reflect adaptation to arid environments in western North America; the relationship between aridity and human culture. (Irreg.) III-SS

4923 Medical Anthropology. Prerequisite: 1113 or junior standing. Looks at the relationship of culture and biology in an ecological perspective. Reproduction, patterns of death and disease, nutrition and stress are examined. The effects of cultural behavior on the immune, endocrine, metabolic and central nervous systems are studied in detail. (Irreg.)

G4933 Advanced Biological Anthropology. Prerequisite: 2503 or permission of instructor. May be repeated with change of content; maximum credit nine hours. Special topics in biological anthropology such as advanced human osteology, human variation, and theory of evolutionary change. (Irreg.)

G4943 Human Osteology and Paleopathology. Prerequisite: 2503. Allows the student to develop a basic familiarity with human skeletal remains, standard anatomical terminology, and methods and techniques of data collection. In turn, these osteological skills will provide a means to explore questions of human adaptability, variation, evolution, patterns of health and disease in prehistory, and the applicability of these findings to contemporary problems.

4953 Special Topics in Anthropology. Prerequisite: 1113 or junior standing. May be repeated with change of content; maximum credit six hours. Topics will vary and are intended to acquaint the advanced anthropological major with subdisciplines through specialized study involving anthropological theory, methodology, the preparation, development and writing of reports. (Irreg.)

4973 Introduction to Faunal Analysis (slashlisted with 5973). Prerequisite: 2113. An introductory-level look at animal bone analysis as performed by archaeologists and zooarchaeologists. The bones of birds, fish, reptiles, amphibians, and mammals, as well as mollusk shell are discussed under the topics of taxonomy, taphonomy, age and sex determination, morphometrics, seasonality, and specialized techniques. Identification of bone and discussions relating recent advances in animal bone analysis are typical class activities. No student may earn credit for both 4973 and 5973. (Irreg.)

4980 Bachelor of Arts Thesis. 1 to 6 hours. Prerequisite: anthropology major; junior standing. May be repeated; maximum credit six hours. Original research in cultural anthropology, biological anthropology, archaeology, or anthropological linguistics. The research will be done under the auspices of an appropriate faculty member; a written thesis on the research is required. (Irreg.)

4990 Independent Study. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Irreg.)
Unless otherwise noted, the prerequisite for courses in anthropology numbered 5000 and above is graduate standing.

G5013 Phonetics and Phonemics. Prerequisite: Graduate standing. This class focuses on the phonetic and phonological skills needed for describing world languages. Topics covered under phonetics include articulatory phonetics, ear training, and using acoustic computer programs. Topics in phonology will cover variation and allomorphy in many languages, writing phonological rules, and the analysis of tone and stress. (F)

G5023 Introduction to Sociocultural Anthropology III. Prerequisite: 5123, 5223. Recent ethnographies are used to critique current sociocultural theory in anthropology. Students will be required to write analytical essays as a means of understanding the relationship between ethnography and theory. (Irreg.)

G5043 Folklife, Folklore and Expressive Culture. Prerequisite: Graduate standing. Introduces the academic study of folklife and folklore. Focus is on theories and methods used to document and interpret expressive culture, including a wide array of verbal, material, performance, and customary genres. Ethnographic, comparative, literary, geographic, historical, and psychological perspectives will be explored. Emphasis will be placed on contextual studies understanding art in community settings. (Irreg.)

G5053 Morphology (Slashlisted with 4053; Crosslisted with Linguistics 5053). Prerequisite: 3035 and 3355. Introduces and develops theories and concepts of morphology including word formation, derivation, inflection, non-concatenative morphs, covert categories, prosodic phenomena, morphosyntactic categories and clitics. Data from non-Western languages will be prominent. No student may earn credit for both 4053 and 5053. (Irreg.)

G5123 Introduction to Sociocultural Anthropology II. Prerequisite: 5223. Introduces students to different units and levels of sociocultural analysis. Students will be required to address a series of research problems as a means of understanding sociocultural analysis. (Irreg.)

G5153 Ethnography of Communication. Prerequisite: Graduate standing. This course focuses on language use in larger discourse and cultural contexts and how language is used to construct the social life and the dynamics of culture. Topics include topic and focus, deixis, reported speech, speaking styles, strategies, and genres, and language and ethnicity. (F)

G5163 The Study of Material Culture (Slashlisted with 4163). Prerequisite: graduate standing. Focuses on the study of the things people make and the broader social contexts in which objects are used, circulated, made meaningful, and consumed. Methods and theories developed in the fields of geography, folklore, cultural anthropology, archaeology, and related social sciences will be examined. No student may earn credit for both 4163 and 5163. (F)

G5173 Historical Archaeology (Slashlisted with 4173). Prerequisite: 1113 or junior standing. Provides a survey of the approaches to the archaeological study of the historic period, which in North America covers the past 500 years. The development of historical archaeology and its current practice and uses will be reviewed using case studies from around the world as examples. No student may earn credit for both 4173 and 5173. (F)

G5213 Ethnographic Methods. Prerequisite: Graduate standing. Survey of ethnographic methods in anthropological research, with weekly fieldwork assignments and writing exercises. First half of class devoted to current theoretical debates and the post-modern controversy and literary issues in classic ethnography. Second half of class devoted to hands-on research, including participant-observation, interviews, field notes, databases, and linguistic elicitation. (Irreg.)

G5223 Theories of Culture. Prerequisite: graduate standing. Survey of anthropological theories and theories of culture (evolutionary, functional, cognitive, ecological, structural, symbolic, etc.) and their impact on research methods in each of the four fields of anthropology and related disciplines. Emphasis will be given to a discussion of primary texts written by the major theorists. (F)

G5243 Area Studies. May be repeated; maximum credit twelve hours. Areas will vary. (F, Sp)

G5253 The Anthropology of Communities (Slashlisted with 4253). Designed to introduce students to the community in applying anthropological field techniques and theory, while gaining training in method and theory in class, students will be assigned assignments to execute in community settings. Particular emphasis will be placed on ethnicity, gender and seniority as ethnological parameters. No student may earn credit for both 4253 and 5253. (Irreg.)

G5263 Feminist Anthropology. Prerequisite: graduate standing. Examines a variety of relevant books and articles on feminist anthropological theory, an area in which the literature has expanded voluminously since the 1970s. Broad topical areas are as follows: Boasian Contributions to Feminist Anthropology; Women in the Field; Women and Work; and, the New Ethnography. (F)

G5273 Topics in Social Anthropology. May be repeated; maximum credit twelve hours. Topics vary. (F, Sp)

G5293 Origins of Complex Society. Prerequisite: Graduate standing. Examines the origins and development of complex society and the institutionalization of social inequalities. Complexity is examined along a changing scale of sociopolitical organization, from small “egalitarian” societies to middle-range “chiefdoms” to large archaic states, using both archaeological and ethnographic examples. (Sp)

G5303 Women and Development in Africa (Slashlisted with 4303). Prerequisite: graduate-level social science course. Examines women’s involvement in economic development in Africa. Some consideration will be given to family structure and social stratification, as well as women’s participation in the social, political and economic spheres. Avenues for viable social change will also be considered. No student may earn credit for both 4303 and 5303. (Irreg.)

G5330 Topics in Linguistics (Slashlisted with 4330; Crosslisted with Linguistics 5330). 1 to 4 hours. Prerequisite: graduate standing. May be repeated with change of content; maximum credit twelve hours. Topics vary and will vary across theoretical and applied areas of linguistics. Some topics that are appropriate include socio-linguistics, psycho-linguistics, language acquisition, advanced syntax, advanced phonology, field phonetics, pragmatics, and comparative readings of twentieth-century theorists. No student may earn credit for both 4330 and 5330 on the same topic. (Irreg.)

G5363 Linguistic Anthropology (Crosslisted with Linguistics 5363). Prerequisite: Anthropology or Linguistics 4353 or permission of instructor. Linguistic principles and their applications in anthropology. Topics vary and may include cognitive anthropology, the structural analysis of folklore, the ethnography of speech events, socio-linguistics. (F)

G5413 Public Archaeology (Slashlisted with 4413). Prerequisite: graduate standing, permission of instructor. Focus is on the articulation of graduate academic training in archaeology with current federal rules and regulations, and educational outreach concerning archaeological research and goals. Emphasis is on advanced training in the preservation and management of archaeological resources. No student may earn credit for both 4413 and 5413. (Irreg.)

G5453 Advanced Faunal Analysis. Prerequisite: Graduate standing. Designed to provide the experience of discovering the past technologies that apply to the manufacture, use, and discard of objects made from or technologies utilizing animal remains. (Irreg.)

G5473 Historical Archaeological Analysis (Slashlisted with 4473). Prerequisite: 1113, junior standing, and 4173. Students will learn the process of analysis and interpretation of historical archaeological sites. Topics will include the process of identifying a wide range of artifacts and their use in interpreting past lifeways. Lecture will be supplemented with hands-on analysis projects using collections from sites excavated in Oklahoma. No student may earn credit for both 4473 and 5473. (Sp)

G5513 Historical Anthropology. Prerequisite: 5023 or 5273. An examination of historiography and its relationship to selected issues in the anthropological study of historical process. (F)

G5523 Economic Anthropology. Prerequisite: 5023 or 5273. Addresses the issues of economics in non-Western societies, spanning hunter-gatherers through archaic empires. Although classical, neoclassical, and Marxist economics can all be brought to bear on these non-Western systems, economics in such societies is often embedded in wider social contexts, which will be considered, along with symbolic uses of production, consumption, and distribution. (Sp)

G5533 Anthropology of Law. Prerequisite: graduate standing. Presents the history of the field of legal anthropology, as well as discussing the major approaches developed for the study of law in non-Western societies, stressing variations by societal complexity, issues of encapsulated societies, and notions of crimes, property, and legal systems. (F)

G5543 Research Design. Prerequisite: 5023, 5123 and 5223. Studies ethnographic research methods and design. An overview of current practices and theoretical disputes, followed by group discussion of individual class members’ unique research design problems. (Irreg.)

G5553 Human Evolutionary History (Slashlisted with 4553). Prerequisite: graduate standing. Biological anthropology course focusing on the subfield of paleoanthropology, concerned with the examination of the origins of modern Homo sapiens. Focus on evolutionary theory and processes of evolutionary change; theory and method of paleoanthropological research; primate archaeological/fossil record, emphasizing the evolution of hominoids and hominids; analysis and interpretation of fossil records; and major trends, issues, and debates in paleoanthropology. No student may earn credit for both 4553 and 5553. (Irreg.)

G5563 Medicine and Society. Prerequisite: 5023 or 5273. Current theoretical concerns in medical anthropology examined through investigations of six
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G573 Political Anthropology. Prerequisite: 5023, 5273, or permission of instructor. Focuses on political systems and actions of nonwestern societies, and considers past and present theoretical approaches to the discipline. Also considers notions of power, authority, and legitimacy in various societies and at different social levels, political actions, the growth and role of bureaucracies, colonies, and encapsulated groups. (F)

G583 Mobility and Sedentism. Prerequisite: graduate standing. Focus on the concepts of mobility and sedentism in the archaeological record. The concepts are defined and discussed in their many forms, and the relationships between the mobility/sedentism continuum and other factors such as the use of architecture, population size, the natural environment, social organization, skeletal impacts, ritual, and kinds of artifacts are considered. Appropriate ethnographic literature is used extensively. (Irreg.)

G5613 Morphosyntax. Prerequisite: 5013. This course will familiarize the student with morphological and syntactic phenomena from a large array of languages. Morphological processes, inflectional and derivation, grammatical categories, and problems in morphemic analysis will be covered. Syntactic phenomena covered includes cliticization, noun incorporation agreement, valence, causation, subordination structures, and head/dependent and word order typologies. (Sp)

G5653 Paleoenthnobotany. Prerequisite: graduate standing. The study of people and plants in the past. Discussion of types of anthropological questions that can be answered, the types of data studied, and the analytic approaches used. Emphasis will be on macroplant remains, mostly seeds and woods, and development of basic laboratory skills. Laboratory. (Irreg.)

G5663 Native Peoples of the Plains (Slashlisted with 4663). Prerequisite: 5023 and permission of instructor. An ethnographic and historical survey of the native peoples of the Plains culture area of North America. No student may earn credit for both 4663 and 5663. (Irreg.)

G5703 Geoarcheology. Prerequisite: graduate standing. Addresses systematic ways of describing and recording soils and/or geological deposits in which archeological sites are found. Skills emphasized in class will be applicable to evaluating the taphonomic integrity of buried archeological sites and to preliminarily assessing their age and the environmental conditions during and after their habitation by people. (Sp)

G5743 Anthropology and American Indians. Prerequisite: Graduate standing. This course is intended to increase the understanding of American Indians and their relationship with American anthropology from about 1846 to the present. Through readings and discussion, an attempt will be made to open a dialogue between the field of anthropology and American Indians and bridge the gap of misunderstanding between scholars, non-Indians, and Indians. (Irreg.)

G5783 Ceramics in Archaeology. Prerequisite: graduate standing. The theoretical frameworks surrounding the analysis of ceramics in archaeology are discussed. Topics considered may include analytic methods, origins, mobility and sedentism, function, production, gender, specialization, distribution, style, ethnicity, household size, ideology, and social identity. (Irreg.)

G5803 Theories of Identity. Prerequisite: 5023 or 5273. Considers the relationship between ethnicity and other social categories on processes such as race, peoplehood, culture, tradition, heritage, nationality, religion, gender, and class. (Sp)

G5813 Archaeology of North America (Slashlisted with 4813). Prerequisite: 1113 or junior standing. A course in the prehistory of the American Indian. Study of the prehistory of North America north of Mexico. Consideration of the various archeological areas of the continent in terms of the prehistoric sequence of events from the earliest times up to European contact. No student may earn credit for both 4813 and 5813. (Irreg.)

G5823 Contemporary Native American Ethnology. Prerequisite: 5023 or 5273. Examines anthropological approaches to developments in native American communities since the 1930s. Topics to be examined include political reorganization since the Self-Determination Act, fourth world strategies via the nation-state, imposed identities, ritual revitalization, hunter-gatherer adaptations, economic development, and language in cultural context. (F)

G5833 Theories of Social Organization. Prerequisite: 5023 or 5273. A survey of current approaches to the description and analysis of social interaction between community members. Emphasis is placed on distinguishing intra-community interaction from inter-community interaction. (Sp)

G5843 Cross-Cultural Study of Sex, Gender and Sexuality (Slashlisted with 4843). Prerequisite: junior standing. A consideration of ethnographic material that challenges anthropological understandings of the relationship among sex, gender, and sexuality. Materials will include “third gender” ethnographic material that has emerged in recent years; community and other studies that suggest gender diversity and complexity in communities that we might label “homosexual”; and anthropological studies of transsexual and transgender phenomena. No student may earn credit for both 4843 and 5843. (Irreg.)

G5863 Archaeology of the Southeast (Slashlisted with 4863). Prerequisite: 1113, 2113. A study of the prehistoric and early historic Native American culture histories. Some attention will be given to historic African and European cultures in the Southeast. Emphasis will be placed on long-term social change, pan-regional trends and colonial transformations. Graduate students will be expected to lead discussions, do seventy-five percent more reading and write a longer research paper. No student may earn credit for both 4863 and 5863. (Sp)

G5893 Topics in Archaeology. May be repeated; maximum credit twelve hours. Topics will vary. Laboratory (F, Sp)

G5913 Topics in Biological Anthropology. Prerequisite: 1113 or permission. May be repeated with change of topic; maximum credit twelve hours. An opportunity for a seminar with research paper for the graduate major with a special interest in biological anthropology. Laboratory. (F, Sp)

G5923 Lithic Technology and Analysis. Prerequisite: 6713. Instructs students in identification of kinds and sources of stone used prehistorically on the Southern Plains and their eastern border and helps students develop skills in flintknapping as an aid to the process of analyzing archaeological materials. (Irreg.)

G5933 Advanced Lithic Technology and Analysis. Prerequisite: 5923. Examines the identification of lithic raw materials, fracture mechanics, flintknapping, and use wear studies and the application of this knowledge to specific research problems. (Irreg.)

G5973 Introduction to Faunal Analysis (slashlisted with 4973). Prerequisite: Graduate standing. An introductory-level at animal bone analysis as performed by archaeologists and zoo archaeologists. The bones of birds, fish, reptiles, amphibians, and mammals, as well as mollusk shell are discussed under the topics of taxonomy, age and sex determination, morphometrics, seasonality, and specialized techniques. Identification of bone and discussion relating recent advances in animal bone analysis are typical class activities. No student may earn credit for both 4973 and 5973. (Irreg.)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. Laboratory (F, Sp, Su)

G5990 Special Anthropological Problems. 1 to 3 hours. May be repeated; maximum credit twelve hours. Permits the student to investigate a specific problem in terms of currently available data. It may be within any field of anthropology recommended by the instructor or adviser. (F, Sp, Su)

G6203 Political Economy. Prerequisite: 5023 or 5273. Examines the political-economic perspective in anthropology and explores its approach to the construction of knowledge, culture, the nature of social systems, social history, archaeology, ethnography (the remote and recent past), ethnicity, class, and gender. (F)

G6440 Research in Biological Anthropology. Prerequisite: Graduate standing. May be repeated; maximum credit six hours. Permits students to undertake independent fieldwork or laboratory research in biological anthropology. Such research is normally limited to original or unpublished work. (Irreg.)

G6590 Fieldwork in American Indian Languages (Crosslisted with Linguistics 6590). 3 to 6 hours. Advanced field experience in the recording and analysis of Native American languages, including a discussion of problems in selecting and effectively utilizing informants. (Irreg.)

G6613 Seminar in Social Anthropology. May be repeated with change of subject matter; maximum credit fifteen hours. Advanced study in various areas of the field. (Sp)

G6633 Seminar in Biological Anthropology. Prerequisite: graduate standing. The core course in biological anthropology. Historical development of biological (physical) anthropology; the development and application of method and theory in the major subfields of biological anthropology. (Sp)

G6650 Advanced Fieldwork in Anthropology. 3 to 8 hours. Prerequisite: permission of chairperson and dean of the Graduate College. Students interested in this summer program should request a Special Announcement from the Department of Anthropology. Laboratory (Su)

G6713 Method and Theory in Archaeology. History of archeology; the development and application of archaeological method and theory in archaeology, with emphasis on American archaeology. (Sp)

G6750 Research in Anthropology. 1 to 4 hours. Permits the student to undertake independent research. Such research is normally limited to original
or unpublished work. (Problems to be solved by library research are properly within the scope of 5990.) Laboratory (F, Sp)

G6803 Advanced Archaeological Theory and Research. Prerequisite: 6713. Advanced class in archaeological theory focusing especially on those theories prominent in the last decade. The course concentrates on theoretical frameworks that might form the students' dissertation research, students will produce a dissertation research design incorporating appropriate archaeological theories. (Sp)

G6810 Research in Ethnology. 1 to 4 hours. Permits the student to undertake independent fieldwork to study some problems in ethnology. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. 2 to 16 hours. Laboratory (F, Sp, Su)

Arabic (ARAB)

1115 Beginning Arabic. Aims at developing mastery of Arabic phonology and script, control of basic vocabulary, grammar, basic communicative situations, and cultural concepts explicitly expressed in the language. Listening and speaking are emphasized from the very beginning. (F) [I-FL]

1225 Beginning Arabic Continued. Prerequisite: 1115. Focuses on all language skills (listening, speaking, reading, and writing), including developing the ability to interact successfully in basic communicative situations. Short texts and topics of general import as well as cultural concepts embedded in the language will be covered. (Sp) [I-FL]

2113 Intermediate Arabic. Prerequisite: 1225. Aims at developing language skills (listening, speaking, reading, and writing) at the intermediate level, with more emphasis on reading and writing. Expands into more complex structures, wider communicative situations and vocabulary relating to practical, social, cultural and media topics. (F)

2223 Intermediate Arabic Continued. Prerequisite: 2113. Continues developing language skills (listening, speaking, reading and writing) at the intermediate level, with more emphasis on reading and writing. Continues to expand into more complex structures, wider communicative situations and vocabulary relating to practical, social, cultural and media topics. (Sp)

3113 Advanced Arabic. Prerequisite: 2223. Students are expected to read, listen to, and understand the content and intent of a variety of authentic texts; write at the paragraph level; and participate in formal and informal discussion on social and professional topics. (F)

3223 Advanced Arabic Continued. Prerequisite: 3113. Students are expected to read, listen to, and understand the content and intent of a variety of authentic texts; write at the paragraph level; and participate in formal and informal discussion on social and professional topics. (Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

4990 Independent Study. 1 to 3 hours. Prerequisite: four courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

Architecture (ARCH)

1012 Computers in Architecture. An introduction to the application of computers to many facets of architecture and related design disciplines, with emphasis on programming and computer graphics. Laboratory (F, Sp)

1133 Introduction to Building Technology. Introduction of the historical development and application of basic architectural technology including building service systems, structures and systems of building technology. (Sp)

1143 Design, Construction and Society. An introduction to the issues forming and informing the built environment. The history, principles, and practices of architecture, construction, and interior design will be explored. (F)

1153 Studio I. Individual and/or team architectural projects at an introductory level focused on the comprehensive integration of social, cultural, theoretical, environmental, and technical influences on architecture. Application of professional techniques of representation and communication required. (F, Su)

1253 Studio II. Prerequisite: 1153 or permission. Individual and/or team architectural projects at an introductory level focused on the comprehensive integration of social, cultural, theoretical, environmental, and technical influences on architecture. Application of professional techniques of representation and communication required. (Sp, Su)

2223 Architectural Structures I. Prerequisite: majors only; 1133, 1143, 1153, 1253, Physics 1114, and Math 1823. Concepts, knowledge and methods of statics and strengths of materials for architects and constructors. (F)

2243 History of the Built Environment I. Prerequisite: majors only or permission of instructor. A theological investigation of the cultural, historical, political and aesthetic values of diverse Western and non-Western cultures that result in significant built environments through the 16th century. Buildings, urbanism, theories, and cultural context will be emphasized. (F) [IV-WC]

2333 Architecture and the Environment. Prerequisite: majors only; 1133, 1143, 1153, 1253. Building/site relationships and introduction of selected environmental and site design concepts. Knowledge and methods appropriate for architects. (Sp)

2343 History of the Built Environment II. Prerequisite: majors only or permission of instructor. Overview of built artifacts in Europe and the Americas since 1750. Emphasis on the formal, philosophical, social, technical and economic context of the projects discussed, as well as their later reinterpretations. (Sp)

2354 Studio III. Prerequisite: majors only; 1133, 1143, 1153, 1253. Individual and/or team architectural projects of moderate complexity focusing on the comprehensive integration of social, cultural, theoretical, environmental and technical influences on architecture. Application of professional techniques of representation and communication required. Laboratory (F)

2454 Studio IV. Prerequisite: majors only; 1133, 1143, 1153, 1253. Continuation of 2354. Introduces advanced techniques of representation and communication. Individual and/or team architectural projects of moderate complexity focusing on the comprehensive integration of social, cultural, theoretical, environmental and technical influences on architecture. Application of professional techniques of representation and communication required. Laboratory (Sp)

2544 Architectural Design/Human Factors (Crosslisted with Interior Design 2544). Prerequisite: EN D 2143 and 2534. Study of human needs and activities as design determinants; lectures and individual projects. Emphasis on the design implications of spatial relationships, scale and function. Additional emphasis on the relationship between architecture and interior design. Laboratory (Sp)

3013 Architecture for Non-Majors. Prerequisite: junior standing. An introduction of basic principles of architecture for the non-architect. Understanding of the qualities and characteristics of a well-designed architectural environment. Not open to architecture majors. (F, Sp) [IV-AF]

3152 Architectural Theory/Design Process. Prerequisite: 2544 and program admission. Introduction to architectural theory and the design process: brief survey of architectural theory with emphasis on philosophical, ideological and aesthetic concepts as influences on contemporary theory and practice. Exploration of decision making for design as a creative and problem-solving process. (F)

3162 Architectural Programming. Prerequisite: 3152, 3555 or 3565. Study of the elements of architectural programming: information gathering, analysis and concept development leading to architectural problem definition. The relationship between programming and the design process is emphasized. (F, Sp)

3223 Environmental Systems in Architecture. Prerequisite: Physics 1114 or 2514. Introduction to environmental control, vertical transportation, water supply, waste water drainage, lighting, and electrical power systems for buildings. (F, Sp)

3232 Architectural Materials. Prerequisite: EN D 2212 and program admission. The relationship between the technology of building materials and architectural design. The effect of material form, strength, durability and workability on structure, connections, surfaces and edges. (Sp)

3313 Mechanics for Architects I. Prerequisite: Mathematics 1812, Physics 1114 or 2514. Principles of architectural structures in tension and compression; resultant and equilibrium force systems; section properties; stress and strain; tension and compression members; trusses and pin connections. (F, Sp, Su)

3323 Mechanics for Architects II. Prerequisite: 3313, and Mathematics 1823. Principles of architectural structures in bending; shear and moment diagrams; bending members; columns and walls; selection of simple members in wood and steel. (Sp)

3433 Environmental Controls I. Prerequisite: 2233, 2243, 2333, 2343, 2354, and full program admission. Introduction to psychrometrics, heat transmission in buildings, heating, air conditioning and ventilation, solar heat gain, passive solar conditioning, plumbing and fire protection. (F)

3443 Modern and Contemporary Architecture. Prerequisite: 2233, 2243, 2333, 2343, 2354, 2454, and full program admission. Survey and discussion of built artifacts of 20th century architectural culture and the last 25 years of American, Japanese, and European architecture. Emphasis on the formal,
philosophical, social, technical and economic context of the projects discussed, as well as their later reinterpretations. (F)

3533 Architectural Materials. Prerequisite: 2233, 2243, 2333, 2343, 2354, 2454, and full program admission. The nature of building materials with regard to form, strength, durability, workability, structure, connections, surfaces and edges. Analysis of architectural expression in use of building materials. (F)

3554 Studio V. Prerequisite: 2233, 2243, 2333, 2343, 2354, 2454, and full program admission. Continuation of 2454. Introduces projects of increasing complexity. Individual and/or team architectural projects of substantial complexity focusing on the comprehensive integration of social, cultural, theoretical, environmental and technical influences on architecture. Application of professional techniques of representation and communication required. Laboratory (F)

3555 Architectural Design/Technological Factors. Prerequisite: 2544 or 3565. Study of construction materials and technology as design determinants; lectures and individual projects. Emphasis on the design implications of building technology. Laboratory (Sp)

3565 Architectural Design/Environmental Factors. Prerequisite: 2544 or 3555 and program admission. Study of forces within the natural and built environment as design determinants; lectures and individual projects. Emphasis on the design implications of environmental forces and the built environment. Laboratory (F)

3633 Architectural Structures II. Prerequisite: 2233, 2243, 2333, 2343, 2354, 2454, and full program admission. Extension of the study of architectural structures through structural design of simple building frameworks; simple structural systems for gravity, lateral and seismic loads in steel, wood and masonry; basic structural detailing. Laboratory (Sp)

3654 Studio VI. Prerequisite: 2233, 2243, 2333, 2343, 2354, 2454, and full program admission. Continuation of 3554. Introduces projects of urban issues. Individual and/or team architectural projects of substantial complexity focusing on the comprehensive integration of social, cultural, theoretical, environmental and technical influences on architecture. Application of professional techniques of representation and communication required. Laboratory (Sp)

3734 Interior Design III (Crosslisted with Interior Design 3734). Prerequisite: 3223, Interior Design 3724 or permission. Focuses on conceptual design, lighting design, and regulatory constraints in commercial interiors. Studio/laboratory presentation of design principles in lighting, acoustics and space planning. Emphasis on contract interiors where lighting is of major importance. Laboratory (Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The topics covered will vary. The content will deal with concepts not usually presented in regular coursework. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. Provides an opportunity for the gifted honoree candidate to work at a special project in the student’s field. (F, Sp)

G4033 Project Documents (Crosslisted with Landscape Architecture 4033). Prerequisite: 4575 or permission or CNS 4923. An introduction to the building construction industry and architectural project manual with emphasis on owner/contractor relations. (Sp)

G4213 Facilities Management. Prerequisite: junior or graduate standing. The relationship between facilities management, design, engineering, business, and behavioral sciences. The function and structure of the facilities management team and its place in the organizational structures. Program and project related facilities management tasks. Facility planning, programming, design, project and construction management, operation and maintenance. (F)

4243 Environmental Control for Buildings I. Prerequisite: 3223 and program admission. Introduction to psychrometrics, heat transmission in building materials, building heat losses and cooling loads and passive solar heating. Survey of air conditioning systems, design of systems for control of the thermal environment in buildings and influences of fenestration, shading and orientation. (F)

4253 Environmental Control for Buildings II. Prerequisite: 3223 and program admission. Relationship of lighting quality to human performance; principles of illumination and electrical power distribution systems; electrical code requirements and automatic control; introduction to piping design, alarm systems, lift controls, architectural acoustics and noise control. (Sp)

4333 Architectural Structures I. Prerequisite: 3223 and program admission. Structural design of simple building frameworks; loads; simple structural systems for gravity, lateral, and seismic loads in steel, wood, and masonry; connections; structural detailing. (F, Sp, Su)

4343 Architectural Structures II. Prerequisite: 3223 and program admission. Structural design of continuous building frameworks; loads; concrete structural systems; foundations; connections; structural detailing. (F, Su)

4443 History of the American Built Environment. Prerequisite: EN D 2413 and 2423 or permission. Survey of the American built environment from initial settlement and subsequent European colonization through the middle of the twentieth century. The integral nature of the built environment and the unique characteristics of the American frontier, and the heterogeneous nature of the American culture will be emphasized. Buildings, urban patterns and ideas will be studied, supported by examples ranging from the recognized standards to the commonplace. (F) (IAW) (C)

4575 Architectural Design/Building Systems Integration. Prerequisite: 3223, 3232, 3555, 3565, and 4333 or 4343. Integration of structures, environmental systems, construction materials and architectural detailing. Emphasis on the use of production and presentation drawings to communicate technical information. Laboratory (F, Su) (V)

4585 Architectural Design/Special Topics. Prerequisite: 3555 or 4575. Studio-based investigation of special topics in architecture or field study in a placement approved by the instructor. (Sp)

4733 Architectural Structures III. Prerequisite: 3433, 3443, 3533, 3554, 3633, 3654. Extension of the study of architectural structures through structural design of continuous building frameworks; loads, concrete structural systems, foundations, connections and structural detailing. Laboratory (F)

4754 Studio VII. Prerequisite: 3433, 3443, 3533, 3554, 3633, 3654. Continuation of 3654. Introduces issues of building systems. Individual and/or team architectural projects at an advanced level focusing on the comprehensive integration of social, cultural, theoretical, environmental and technical influences on architecture. Application of professional techniques of representation and communication required. Laboratory (F)

4833 Environmental Controls II. Prerequisite: 3433, 3443, 3533, 3554, 3633, 3654. Introduction to acoustics, electrical design, lighting design, alarm and life safety systems. (Sp)

4854 Studio VIII. Prerequisite: 3433, 3443, 3533, 3554, 3633, 3654. Continuation of 4754. Introduces issues of environmental sustainability. Individual and/or team architectural projects at an advanced level focusing on the comprehensive integration of social, cultural, theoretical, environmental and technical influences on architecture. Application of professional techniques of representation and communication required. Laboratory (Sp)

G4940 Field Work. 1 to 4 hours. Prerequisite: senior standing and permission of instructor. Field study related to the student’s area of interest in a position approved by the instructor. One hour credit per 120 hours of field work or equivalent. Documentation and evaluation is required. (F, Sp, Su)

4960 Directed Readings. 1 to 4 hours. Prerequisite: senior standing and permission of instructor. May be repeated with change of subject; maximum credit twelve hours. (F, Sp, Su)

G4970 General Departmental Seminar. 1 to 6 hours. Prerequisite: senior or graduate standing; or permission of instructor. May be repeated with change of content; maximum credit twelve hours. Special topics in architecture. (F, Sp, Su)

G5013 Building Types Analysis. Prerequisite: graduate standing and permission of instructor. May be repeated with change of content; maximum credit six hours. Analysis of functional, technical, and aesthetic requirements of selected building types; topics may vary. (Irreg.)

G5023 Architectural Seminar. Prerequisite: graduate standing or permission of instructor. May be repeated with change of subject matter; maximum credit twelve hours. Investigation and discussion based upon the following topics: design methods, architectural research, history and theory, environmental processes, structural theory, visual perception, urban design and other related topics. (F, Sp)

G5033 Design Theory and Criticism (Crosslisted with Landscape Architecture 5033). Prerequisite: graduate standing or permission of instructor. Historical and contemporary topics in design goals, concepts, theories and philosophies. (Sp)

G5043 Project Management. Prerequisite: 4033 or permission. Continuation of 4033. Management of the various phases within a project sequence; schematic design, design development, construction documents, bid/ negotiation, construction administration. Emphasis on owner/architect relationships. (F)

G5052 Professional Practice (Crosslisted with Landscape Architecture 5052). Prerequisite: 5043 or permission of instructor. Survey of career options, internship, registration, firm organization, office management, professional conduct and ethics within the practice of architecture. (F, Sp)
Course Descriptions

G5055 Studio X. Prerequisite: 4733, 4754, 4833, 4854, and 5955. A continuation of 5955; capstone course, the third of three required. Comprehensive architectural project at a professional level. Project development from schematic design through design development and partial construction documents. Application of professional techniques of representation and communication in the professional practice. Project demonstrates professional skills and comprehension of complete environmental, urban, and systems issues in architecture. Laboratory (Sp)

G5083 Advanced Architectural Computer Applications. Prerequisite: permission of instructor. The advanced use of computers in three-dimensional modeling, rendering and animation. (F, Sp)

G5162 Professional Practice I. Prerequisite: 4733, 4754, 4833, and 4854 or graduate standing and permission. Principles and procedures for practice of architecture and related professions. Exploration of professional ethics and services, project documents and management, project delivery methods and contractual relationships. (F)

G5213 Advanced Architectural Materials. Prerequisite: 3232 (or CNS 3713), 4243, 4575 (or CNS 4923). Assembly of building materials and components with regard to safety, weather resistance, weathering, wear, maintenance, material compatibility, differential movement, construction failures, quality assurance and other subjects concerning resistance to deterioration. (Irreg.)

G5262 Professional Practice II. Prerequisite: 4733, 4754, 4833, 4854, and 5162 or graduate standing and permission. A continuation of 5162. Principles and procedures for practice of architecture and related professions. Exploration of professional ethics and services, project documents and management, project delivery methods and contractual relationships. (Sp)

G5343 Urban Facilities Planning (Crosslisted with Regional and City Planning 5343). Prerequisite: upper-division or graduate standing. Long- and short-term considerations in urban facilities planning. Tactical facility planning and management in organizational environment; site, layout, economic criteria, human factors, facility planning-programming standards. (F)

G5413 Regional History. Prerequisite: senior standing. Social, political, economic and religious influences contributing to the development of an architectural expression in the southwest United States, from Spanish missions to the Depression of the 1930's. (F)

G5423 Principles and Practice of Historic Preservation. Prerequisite: graduate standing and permission of instructor. Social and economic aspects of preservation: local, state and federal guidelines for delineation and regulation of historic districts and buildings; case studies in economic feasibility and adaptive reuse, reconstruction and rehabilitation. (F)

G5453 History of Modern Architecture. Prerequisite: 3152, 4443. A survey of architecture in relation to modern ideas, hopes and technologies—traces the European and American roots of the contemporary built environment. The integral nature of architecture and the cultural environment will be explored. Buildings, urban patterns and ideas will be emphasized. Examples will range from recognized standards to the commonplace. (Sp, Su)

G5505 Architectural Design/Comprehensive Project. Prerequisite: 4243, 4253, 4333, 4343, 5595. Major individual design Project. Emphasis on comprehensive, integrated design solution to the human, environmental and technological concerns encountered in a complex architectural problem. Laboratory (Sp)

G5516 Graduate Architectural Design I. Prerequisite: acceptance to the M. Arch. program or permission of graduate committee. Introduction to basic design principles. Abstract and small scale projects with minimum complexity. (F)

G5526 Graduate Architectural Design II. Prerequisite: 5516 or permission of graduate committee. Intermediate graduate design studio. Intermediate-scale projects with some complexity. (F)

G5536 Graduate Architectural Design III. Prerequisite: 3232, 3323, 4253, 5526, concurrent enrollment in 4333, or permission of graduate committee. Advanced graduate design. Large-scale projects with considerable complexity. (F)

G5546 Graduate Architectural Design IV. Prerequisite: 4253, 4333, 5536, concurrent enrollment in 4343, or permission of graduate committee. Comprehensive graduate design. Intermediate-scale projects taken to comprehensive breadth and depth. (F)

G5595 Architectural Design/Urban Design. Prerequisite: 4585, 4243 or 4253, 4333 or 4343. Studio-based investigation of interbuilding relationships; team and individual projects. Emphasis on the relationship of architecture to urban design, landscape architecture and regional/city planning. Laboratory (Sp)

G5643 Urban Design Analytics (Crosslisted with Regional and City Planning 5643). Prerequisite: graduate standing in architecture or regional and city planning. A survey of analysis techniques applicable to the field of urban design, including the interpretation of basic demographic statistics, an introduction to survey and observation research techniques, visual survey methodologies, environmental assessment strategies, forecasting, gaming and decision analysis. (Sp)

G5713 Real Estate I. Prerequisite: graduate standing or permission of instructor. An introductory course which surveys the real estate development process. (F)

G5723 Real Estate II. Prerequisite: 5613. Based on the knowledge of the real estate process gained in Real Estate I, the student will complete a major related individual project. (Sp)

G5733 Marketing. Prerequisite: graduate standing or permission of instructor. Introduction to the principles, and their application required for the marketing of professional services. (Sp)

G5743 Legal Framework for Design. Prerequisite: graduate standing or permission of instructor. Introduction to the legal principles relevant to real estate planning, financing, development, operation, and disposal of real property and real estate projects. (F)

G5753 Value Analysis. Prerequisite: graduate standing or permission of instructor. The concept and application of value engineering is explained along with its specialized techniques. (Sp)

G5763 Landscape Architecture for Architects. Prerequisite: graduate standing or permission of instructor. Analysis and organization of the site together with the use of plant materials in landscape design. (Sp)

G5930 Independent Study with Computer Applications. Prerequisite: END 1012 and permission of instructor. Contracted independent study with emphasis on computer applications in architecture. Documentation and presentation varies with nature of the problem or project. (Sp)

G5955 Studio IX. Prerequisite: 4733, 4745, 4833, 4854, Capstone course, the second of three required. Comprehensive architectural project at a professional level. Project development from urban context through schematic design. Application of professional techniques of representation and communication required. Laboratory (F)

G5960 Directed Readings. 1 to 4 hours. Prerequisite: fifth year or graduate standing in architecture and permission of instructor. May be repeated with change of subject; maximum credit nine hours. Studies in major field as approved by instructor. (F, Sp, Su)

G5970 General Departmental Seminar. 1 to 4 hours. Prerequisite: graduate standing or permission of instructor. May be repeated; maximum credit twelve hours. Advanced professional topics in architecture, construction science, urban design or environmental design. Lectures, team and individual assignments. (F)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. Laboratory (F, Sp)

G5990 Special Studies in Architecture. 1 to 6 hours. Prerequisite: fifth year or graduate standing and permission of instructor. May be repeated; maximum credit nine hours. Subject as assigned by instructor will be explored in depth. Documentation and presentation varies with nature of problem. Laboratory (Sp, Su)

G6590 Professional Project Research. 1 to 4 hours. Prerequisite: permission of instructor. Research and development on subjects related to the professional project in architectural studies, architectural technology, historic preservation, urban design or other approved topics. (F, Sp, Su)

G6643 Urban Design Theory (Crosslisted with Landscape Architecture and Regional and City Planning 6643). Prerequisite: graduate standing. A survey of theory relevant to the urban design process, including social and behavioral concepts, visual and aesthetic theory, spatial and geographic factors of urban form. (Sp)

G6652 Urban Design Seminar (Crosslisted with Regional and City Planning 6652). Prerequisite: permission of instructor. An advanced seminar in urban design problems through the means of an in-depth and on-site investigation and evaluation of significant national and international urban development projects. (Sp)

G6680 Advanced Architectural Design III. 1 to 6 hours. Prerequisite: 5505 or 5546. May be repeated; maximum credit six hours. Advanced design projects with an emphasis in architectural studies, architectural technology, historic preservation, urban design or other approved topics. Laboratory (F, Sp)

G6690 Professional Project. 1 to 6 hours. Prerequisite: 5595 or 6680. May be repeated; maximum credit six hours. A terminal professional project demonstrating comprehensive understanding and integrative capabilities in architectural studies, architectural technology, historic preservation, urban design or other approved topics. Laboratory (F, Sp)

G6930 Independent Study with Computer Applications. Prerequisite: END 1012 and permission of instructor. Contracted independent study with emphasis on computer applications in architecture. Documentation and presentation varies with nature of the problem or project.
G6990 Special Studies in Architecture. 1 to 6 hours. Prerequisite: graduate standing. May be repeated; maximum credit twelve hours. The candidate will thoroughly explore the particular phase of architecture selected for advanced study by the student and the graduate committee; presentation of the work will be determined by the nature of the contribution. Laboratory (F, Sp, Su)

Art (ART)

1013 Foundation Studio: Two-Dimensional. Corequisite: ARTC 1003, 1023. Focuses on the formal elements and principles of two-dimensional spatial organization. Exploration in the basic language of art and design. Emphasis is placed on developing an understanding of the visual arts, the ingredients of which include inquiry, analysis, comparison, evaluation and language. Introduction to tools, methods and materials. (F)

1023 Foundation Drawing. Corequisite: 1013 and ARTC 1003. Introduction of basic techniques and skills needed to draw and interpret a three-dimensional world two-dimensionally. Exercises in observation, line, value, proportion, and perspective will be explored through a variety of materials. (F, Sp)

1113 Foundation Studio: Three-Dimensional. Prerequisite: 1013, 1023, and ARTC 1003; Corequisite: ARTC 1103. Focuses on the formal element, principles and concepts of three-dimensional form. Emphasis is placed on developing an understanding of working in three dimensions (with clay as the medium), and on interpreting shape by combining surface color and three-dimensional form. Conceptual and critical issues introduced. (F, Sp)

2253 Beginning Ceramics. Prerequisite: 15 hours of foundation courses or permission of instructor on a space available basis. Introduction to various hand-building, glazing and firing techniques. Emphasis placed on developing an understanding of working in three dimensions (with clay as the medium), and on interpreting shape by combining surface color and three-dimensional form. Conceptual and critical issues introduced. (F, Sp)

2263 Introduction to Ceramic Processes. Prerequisite: 15 hours of foundation courses or permission of instructor on a space available basis. Introduction to various hand-building, glazing and firing techniques. Functional and sculptural projects will be defined on a term-to-term basis. (F, Sp)

2313 Beginning Drawing. Prerequisite: 1013, 1023, and ARTC 1003; or permission of instructor. Uses representational drawing to increase observational abilities. Perspective, value, form, texture, proportion and scale are studied using still life, the figure and outside drawing assignments. (F, Sp)

2321 Introduction to Drawing. Prerequisite: ART 2313 or permission of instructor. Introduction to drawing utilizing processes and concepts of line, color, composition and media. Students will explore abstraction using still life as well as the human figure. (F, Sp)

2413 Beginning Painting. Prerequisite: 15 hours of foundation courses, or permission of instructor. The aqueous media used in various approaches to painting problems (processes and concepts); lectures, group criticism and individual instruction assist the student in studying the fundamentals of painting. (F, Sp)

2421 Introduction to Painting Processes. Prerequisite: 2413 or permission of instructor. Continued instruction of the aqueous media as begun in ART 2313. (F, Sp)

2513 Beginning Sculpture: Contemporary. Prerequisite: 15 hours of foundation courses. Introduction of basic sculpture processes and concepts. Emphasis on formal visual properties and technical production. Principles and sculpture will be defined on a term-to-term basis. (F, Sp)

2523 Beginning Sculpture: Figurative. Prerequisite: 15 hours of foundation courses. Creating in oil base clay the human skull and a life-size portrait; creating a waste mold and making a plaster cast from it. (F, Sp)

2633 Visual Communications I. Prerequisite: 15 hours of foundation courses; corequisite: 2643. Introductory course in visual communication which focuses on nonverbal communication. Students are introduced to design research, theory and methods. This course explores the importance design plays in shaping meaning and interpretation through basic visual interaction. (F)

2643 Design Technology. Prerequisite: 15 hours of foundation courses; corequisite: 2633. Introduction to electronic tools, processes and techniques as they relate to visual communications. (F)

2653 Visual Communications II. Prerequisite: 2633, 2643; corequisite: 2663. Course is structured to help students apply various strategies, concepts, and form/content relationships to their work. Projects stress theory, application and an introduction to the computer as a design process tool. (Sp)

2663 Typography I. Prerequisite: 2633, 2643; corequisite: 2653. Introduction to the basic concepts of typographic design through studio projects, critiques and lectures. (F, Sp)

2673 Beginning Metal Design. Prerequisite: 15 hours of foundation courses. Introduction to material and construction of simple object in non-ferrous metals. Cutting, forming, soldering, etc. (Irreg.)

2683 Beginning Metal Design Processes. Prerequisite: 2673. Introduction to lost wax casting techniques and more advanced construction methods. (Irreg.)

2713 Beginning Etching. Prerequisite: 15 hours of foundation courses. An introduction to the basic techniques and concepts of intaglio printing will be explored. Each student will create a body of work utilizing a variety of etching methods. (Irreg.)

2723 Beginning Lithography. Prerequisite: 15 hours of foundation courses. Designed to introduce the student to a variety of lithographic hand and photo techniques in the production of multiple images. Each student will produce a body of work with strong emphasis on drawing skills, design and personal creativity. (Irreg.)

2733 Beginning Serigraphy. Prerequisite: 15 hours of foundation courses. This course will involve the implementation of both hand and photo stencil methods. During the semester each student will produce a body of work exploring the image-making potential of screen printing techniques. Strong emphasis will be placed on exploring color, design and personal creativity. (Irreg.)

2803 Media Arts Fundamentals. Prerequisite: permission of department. Art majors only. Introduction to concepts and practices in media arts with exposure to a variety of media including film, video, photography, and new media. (Irreg.)

2813 Filmmaking I. Prerequisite: 2803 or ARTC 2010, or permission of instructor on a space-available basis. Beginning 16mm filmmaking covering basic technical and aesthetic properties of film. Students work in b/w 16mm film and non-synchronous sound. The course is taught through a combination of lecture, hands-on lab, and film screening. (F, Sp)

2843 Photography for Artist I. This is a non-darkroom introduction to photographic study. The main components of this course include camera and lens operations and techniques and exposure control; to develop an informed approach to discussing art through selective readings and viewing of slides and/or videos; and to establish a foundation to the critical process. Laboratory (F, Sp)

2853 Photography for the Artist II. Prerequisite: 2843. Introduces the black and white darkroom experience. Film processing, printing, and enlarging; fine print controls; presentation and critical evaluation and will continue to develop an informed approach to conceptual issues, photo production, and criticism. Laboratory (F, Sp)

2873 Video for the Artist I. Prerequisite: 2803 or ARTC 2010, or permission of instructor on a space-available basis. Emphasis on developing video production and post-production skills. Training exercises in studio and field projection, camera work, lighting and sound. Instruction and practice in analog and digital editing. Exploration of digital media. Students will produce a number of short projects. (Irreg.)

3253 Intermediate Ceramic Design. Prerequisite: 2253. Continued exploration of various hand-building, glazing and firing techniques. Primarily low fire processes. Formal issues such as sculptural composition, form and surface development, and the interpretation of function addressed. Emphasis placed on developing a personal language of materials and ideas. Progression through the range of ceramic-making skill sets. Conceptual and critical issues expanded. (F, Sp)

3263 Intermediate Ceramic Processes. Prerequisite: 2253. Continued exploration of various hand-building, glazing and firing techniques. Primarily high fire processes. Utilitarian and sculptural concerns, creative problem solving, art making strategies addressed. Emphasis placed on developing a personal language of materials and ideas. Progression through the range of ceramic-making skill sets. Conceptual and critical issues expanded. (F, Sp)

3313 Intermediate Drawing Processes. Prerequisite: 2313 or permission of instructor. Intermediate life drawing in various media with use of the human figure as the primary subject. The development of drawing processes and proficiency is stressed. (Irreg.)

3323 Intermediate Drawing Concepts. Prerequisite: 2313 or permission of instructor. Continuation of 3313. Intermediate life drawing in various media, using the human figure as the primary subject. The development of mature and personal drawing concepts and proficiency is stressed. (Irreg.)
3413 Intermediate Painting Processes. Prerequisite: 2131, 2413, or permission of instructor. Individual painting issues are pursued by the artist choosing their own media. These works are to be created with personal expression, artistic style, and canvas scale as important themes. (Irreg.)

3423 Intermediate Painting Concepts. Prerequisite: 2313 or permission of instructor. Personal painting issues are developed further with concepts and techniques attuned with working toward an exhibition practice. (Irreg.)

3513 Intermediate Sculpture: Contemporary Process. Prerequisite: 2513, 2523 or permission of instructor. Examination of metal fabrication, welding, woodworking (construction and carving), and advanced assembly with nontraditional materials. Concerns in the development of formal visual ideas, presentation, concept and theory of contemporary sculpture will be emphasized. (Irreg.)

3523 Intermediate Sculpture: Figurative Processes. Prerequisite: 2513, 2523 or permission of instructor on a space available basis. Creating a bas-relief and sculpting the human hand and foot in oil based clay; creating a slip cast mold of the bas-relief for water base clay castings. (Irreg.)

3533 Intermediate Sculpture: Contemporary Concepts. Prerequisite: 2513, 2523 or permission of the instructor on a space available basis. Emphasis placed on the relationship of craft, subject, scale and material. Experimental sculptural avatars including nontraditional methods, installation and other 3-D driven media encouraged. Issues relating to professional exhibition, documentation, writing and critical theory will be presented. (Irreg.)

3543 Intermediate Sculpture: Figurative Small Projects. Prerequisite: 2513, 2523 or permission of the instructor. Creating a plaster sculpture(s) with a foam core; students will sculpt several small figurative sculptures from oil based clay. Armatures for smaller sculptures are designed and developed for more complex compositions. (Irreg.)

3553 Intermediate Sculpture: Figurative Large Projects. Prerequisite: 2523. Larger sculptures will be created in oil based clay and plaster; larger armatures are designed and developed for the larger compositions. (Irreg.)

3633 Visual Communications III. Prerequisite: 2653, 2663; corequisite: 3663. Exploration and application of information systems as they apply to visual communications. (F)

3643 Digital Design. Prerequisite: 3633, 3663; corequisite: 3653. Emphasis will be on exploring new directions in design communication, moving from the printed page to electronic media. Development of new strategies for interface, internet, and interactive design integrating words, images, animation, and sound. (F)

3653 Visual Communications IV. Prerequisite: 3633 and 3663; corequisite: 3643. Concentration is on design problem solving in visual communication at an intermediate level. (Sp)

3663 Typography II. Prerequisite: 2653, 2663; corequisite: 3633. Concentrated exploration of issues within typography using word and image. Projects explore visual and verbal context and meaning through expressive and utilitarian aspects of typography. (F)

3673 Intermediate Metal Design. Prerequisite: 2673, 2683. Design studies and a continuation of metal objects, as well as casting and introduction to coloring metal, stone setting, plating, etc. (Irreg.)

3683 Intermediate Metal Design Processes. Prerequisite: 2673, 2683. Emphasis on design in terms of quality, execution and methods of construction. (Irreg.)

3713 Intermediate Etching. Prerequisite: 2713. May be repeated; maximum credit six hours. Involves intermediate studies, utilizing the intaglio process in the exploration of image, design and personal creativity. (Irreg.)

3723 Intermediate Lithography. Prerequisite: 2723. May be repeated; maximum credit six hours. Involves intermediate studies utilizing the lithography method in the exploration of color, design and personal creativity. (Irreg.)

3733 Intermediate Serigraphy. Prerequisite: 2733. May be repeated, maximum credit six hours. Involves intermediate studies utilizing screenprinting techniques in the exploration of color, design and personal creativity. (Irreg.)

3813 Filmmaking II. Prerequisite: 2813. Continuation of Filmmaking I with an introduction to use of color film stock and an emphasis on the use of lighting and sound. Raw footage will be transferred to a digital video format for editing on nonlinear edit systems. The course will be taught through a combination of lecture, hands-on lab, film screenings and project critiques. (Irreg.)

3853 Photography for the Artist III. Prerequisite: 2843 and 2853. May be repeated once with change of content; maximum credit six hours. Focus on the development of concepts in the imagemaking process and explore various means for producing a cohesive body of work. Instructor will determine the content and methodology but all courses will include refinement of ideas and informed discussion with referential context. Readings and writings will supplement class discussion. Laboratory (F, Sp)

3873 Video for the Artist II. Prerequisite: 2873. Continuation of 2873. Introduction to advanced imaging and editing techniques. (Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject matter; maximum credit six hours. Consists of either reading topics or independent study designated by the instructor in keeping with the student’s major program. The topics of study will cover materials not usually presented in the regular courses. (F, Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program, junior or senior standing. May be repeated with change of subject matter; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F or Sp)

4253 Advanced Ceramics. Prerequisite: 3253, 3263. May be repeated, maximum credit 12 hours. Emphasis on articulating and developing individual projects in ceramics. Students are expected to research materials and techniques pertinent to development and exploration of personal direction of form and ideas. Each student is expected to create a body of work building on prior exploration of color and form in clay and glazes, traditional and/or non-traditional techniques. Emphasis is on students’ individual area of interest. (F, Sp)

4313 Advanced Drawing Processes. Prerequisite: 3313, 3323. Students are directed in the development of a personal portfolio of works representing drawing proficiency and professional maturity. (Irreg.)

4323 Advanced Drawing Concepts. Prerequisite: 2313, 2323, 3313, or 3323. 4313. Students are encouraged to refine their portfolio of work representing drawing proficiency and professional maturity. (Irreg.)

4333 Advanced Painting Processes. Prerequisite: 3413, 3423. A mature and distinctive painting language is developed utilizing various media. The creation of painted work with relationships to an artistic series are explored. (Irreg.)

4423 Advanced Painting Concepts. Prerequisite: 4413. A series of paintings are created representing a body of work of a professional nature. (Irreg.)

4513 Advanced Sculpture: Contemporary. Prerequisite: 3513, 3533. Self-directed research objectives in terms of sculpture technique, process and concept. Progress relating to personal artistic growth and professional discipline will be expected. Emphasis will be placed on producing a unique body of work for portfolio development and exhibition. (Irreg.)

4533 Advanced Sculpture: Figurative I. Prerequisite: 2513, 3513, 3523. Develop the student’s awareness of form through the modeling of the human figure. The students will study the fundamentals of sculpture such as armature, design, materials, tools and techniques. (Irreg.)

4543 Advanced Sculpture: Figurative II. Prerequisite: 4533. Continuation of the techniques developed in 4533. Students will explore more complex compositions and armature designs while modeling the human form. There will be more emphasis on human and animal anatomy. Will expand into the study and application of bas-reliefs. (Irreg.)

4573 Monumental Sculpture. Prerequisite: 4543. Students will be introduced to various enlarging techniques, taking a sculpture from the maquette (small version) to life-size or monumental scale. Focus on enlarging with the grid method. Use of a pantograph and the wafer method will also be discussed. Emphasis will be placed on the professional aspects of working with foundries, installations, and clientele. (F)

4583 Mold Making. Prerequisite: 4543. Expose the student to the fundamentals of mold making pertaining to sculpture. Focus on the creation of a silicone rubber mold. Other mold making techniques will be explored such as alginate and waste molds. (Sp)

4643 Visual Communications V. Prerequisite: 3653, 3663; corequisite: 4633. Students explore contemporary and critical issues in visual communications. This course deals with the planning, design and implementation of multi-faceted design problems directed towards an understanding and integration of people and visual communication. (F)

4653 Typography III. Prerequisite: 3643, 3653; corequisite: 4643. Typographic problem solving, exploration, and experimentation. Emphasis is on the development of syntactic typographic relations in visual communication. (F)

4663 Visual Communications VI. Prerequisite: 4643, 4653. An advanced course in visual communication exploring multi-component graphic design problems that convey complex information. (Sp)
4713 Advanced Etching. Prerequisite: 3713. May be repeated, maximum credit 12 hours. This course involves further advanced studies in the area of intaglio. Although color, design and personal creativity will be of importance, the development of ideas will be paramount. (Irreg.)

4723 Advanced Lithography. Prerequisite: 3723. May be repeated, maximum credit nine hours. This course involves further advanced study in the area of lithography. Although drawing skill, design and creativity will be important, the development of ideas will be paramount. (Irreg.)

4733 Advanced Serigraphy. Prerequisite: 3733. May be repeated, maximum credit nine hours. This course involves further advanced studies in screenprintmaking. Although the exploration of color, design and creativity will still be of major importance, the development of ideas will be of greatest importance. (Irreg.)

4813 Media Arts Special Topics. Prerequisite: 3810 or 3873. May be repeated with change of topic; maximum credit 12 hours. Explores various advanced-level topics in production, style and technique. Topics to be determined by department. Individual topics may include but are not limited to animation concepts, documentary, experimental, narrative, digital media, as well as editing, lighting, sound, and other production-related concerns. (F, Sp)

4820 Film Animation III. 3 to 6 hours. Prerequisite: 3820. The student will be expected to work on developing personal ability in the experimental art film with the emphasis on the theory of animation. (F, Sp)

4843 Applied Photo Practice. Prerequisite: 2843, 2853 and 3853. May be repeated; maximum credit 15 hours. Explores various applied and practical topics of photography to be determined by department. Topics may include view camera technique, zone system, photo illustration, studio experience and extended research and presentation of related topics. Each option will permit concentration and encourage realization of conceptual goals. (Irreg.)

4853 Advanced Photo Practices. Prerequisite: 2843, 2853, and 3853. May be repeated with change of content; maximum credit 15 hours. Advanced-level topics to be determined by department and which may include advanced B&W; color; books and portfolios. Extended research and presentation of related topics. Each option will permit concentration and encourage realization of conceptual goals. (Irreg.)

4863 Alternative Photo Practices. Prerequisite: 2843, 2853, and 3853. May be repeated; maximum credit 15 hours. Topics of historical processes, contemporary explorations, and alternatives to traditional photo methods to be determined by department (nonsilver I and II; process imagery, alternative color, digital imaging, extended research and presentation, etc.). Each option will permit concentration and encourage realization of conceptual goals. (Irreg.)

4873 Advanced Media Arts. Prerequisite: 4810 and permission of instructor. May be repeated; maximum credit six hours. Students create advanced-level work in media arts within a group-critique setting. (F, Sp)

4913 Ceramic Studio Projects. Prerequisite: sophomore standing. May be repeated with change of subject matter; maximum credit nine hours. Individual problems in ceramics. (Irreg.)

4923 Studio Projects. Prerequisite: sophomore standing or higher. May be repeated with change of subject matter; maximum credit six hours. Individual problems in studio. (Irreg.)

4930 Internship. 1 to 6 hours. Prerequisite: permission of instructor. May be repeated; maximum credit nine hours. Students arrange and participate in a professional work experience with an approved internship site. (Irreg.)

4933 Painting Studio Projects. Prerequisite: Sophomore standing. May be repeated with change of subject matter; maximum credit nine hours. Individual problems in painting. (Irreg.)

4943 Printmaking Studio Projects. Prerequisite: Sophomore standing. May be repeated with change of subject matter; maximum credit nine hours. Individual problems in printmaking. (Irreg.)

4953 Sculpture Studio Projects. Prerequisite: Sophomore standing. May be repeated with change of subject matter; maximum credit nine hours. Individual problems in sculpture. (Irreg.)

4963 Photography Studio Projects. Prerequisite: Sophomore standing. May be repeated with change of subject matter; maximum credit nine hours. Individual problems in photography. (Irreg.)

4973 Film and Video Studio Projects. Prerequisite: Sophomore standing. May be repeated with change of subject matter; maximum credit nine hours. Individual problems in film and video. (Irreg.)

4983 Senior Capstone Experience. Prerequisite: senior classification. May not be repeated for credit. Primary objective is to provide a culminating experience for the senior-year student. Satisfies the University-wide General Education Requirement for a capstone course for art majors. (V)

4993 Visual Communication Studio Projects. Prerequisite: Sophomore standing. May be repeated with change of subject matter; maximum credit nine hours. Individual problems in visual communication. (Irreg.)

G5010 Graduate Studio. 1 to 9 hours. Prerequisite: graduate standing in art. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

G5013 Graduate Studio Ceramics I. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

G5020 Graduate Studio. 1 to 9 hours. Prerequisite: graduate standing in art. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

G5030 Graduate Studio. 1 to 9 hours. Prerequisite: graduate standing. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp)

G5033 Graduate Studio Painting I. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

G5040 Graduate Studio. 1 to 9 hours. Prerequisite: graduate standing. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp)

G5043 Graduate Studio Printmaking I. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

G5053 Graduate Studio Sculpture I. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

G5063 Graduate Studio Photography I. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

G5073 Graduate Studio Film/Video I. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

G5093 Graduate Studio Visual Communications I. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

G5113 Graduate Studio Ceramics II. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

G5133 Graduate Studio Painting II. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

G5143 Graduate Studio Printmaking II. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

G5153 Graduate Studio Sculpture II. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

G5163 Graduate Studio Photography II. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

G5173 Graduate Studio Film/Video II. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

G5193 Graduate Studio Visual Communications II. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

G5213 Graduate Studio Ceramics III. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

G5223 Graduate Studio Painting III. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

G5224 Graduate Studio Printmaking III. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

G5225 Graduate Studio Sculpture III. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

G5226 Graduate Studio Photography III. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

G5227 Graduate Studio Film/Video III. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

G5229 Graduate Studio Visual Communications III. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

G5313 Graduate Studio Ceramics IV. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

G5333 Graduate Studio Painting IV. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

G5343 Graduate Studio Printmaking IV. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

G5353 Graduate Studio Sculpture IV. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

G5363 Graduate Studio Photography IV. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

G5373 Graduate Studio Film/Video IV. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)
GS393 Graduate Studio Visual Communications IV. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

GS413 Graduate Studio Ceramics V. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

GS433 Graduate Studio Painting V. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

GS443 Graduate Studio Printmaking V. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

GS453 Graduate Studio Sculpture V. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

GS463 Graduate Studio Photography V. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

GS473 Graduate Studio Film/Video V. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

GS493 Graduate Studio Visual Communication V. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

GS513 Graduate Studio Ceramics VI. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

GS533 Graduate Studio Painting VI. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

GS543 Graduate Studio Printmaking VI. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

GS553 Graduate Studio Sculpture VI. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

GS563 Graduate Studio Photography VI. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

GS573 Graduate Studio Film/Video VI. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

GS593 Graduate Studio Visual Communications VI. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

GS613 Graduate Studio Ceramics VII. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

GS633 Graduate Studio Painting VII. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

GS643 Graduate Studio Printmaking VII. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

GS653 Graduate Studio Sculpture VII. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

GS663 Graduate Studio Photography VII. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

GS673 Graduate Studio Film/Video VII. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

GS693 Graduate Studio Visual Communications VII. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

GS713 Graduate Studio Ceramics VIII. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

GS733 Graduate Studio Painting VIII. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

GS743 Graduate Studio Printmaking VIII. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

GS753 Graduate Studio Sculpture VIII. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

GS763 Graduate Studio Photography VIII. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

GS773 Graduate Studio Film/Video VIII. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

GS793 Graduate Studio Visual Communications VIII. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

GS813 Graduate Studio Ceramics IX. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

GS833 Graduate Studio Painting IX. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

GS843 Graduate Studio Printmaking IX. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

GS853 Graduate Studio Sculpture IX. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

GS863 Graduate Studio Photography IX. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

GS873 Graduate Studio Film/Video IX. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

GS893 Graduate Studio Visual Communications IX. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

GS910 Graduate Studio Projects. 1 to 9 hours. Prerequisite: graduate standing in art. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

GS913 Graduate Studio Ceramics X. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

GS920 Graduate Studio Projects. 1 to 9 hours. Prerequisite: graduate standing in art. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

GS930 Graduate Studio Projects. 1 to 9 hours. Prerequisite: graduate standing. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with choice of medium. (F, Sp)

GS933 Graduate Studio Painting X. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

GS940 Graduate Studio Projects. 1 to 9 hours. Prerequisite: graduate standing. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

GS943 Graduate Studio Printmaking X. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

GS953 Graduate Studio Sculpture X. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

GS963 Graduate Studio Photography X. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

GS980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

GS993 Graduate Studio Visual Communications X. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

G6010 Graduate Studio. 1 to 6 hours. Prerequisite: graduate standing—30 hours. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

G6013 Graduate Studio Ceramics XI. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

G6020 Graduate Studio. 1 to 6 hours. Prerequisite: graduate standing—30 hours. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

G6030 Graduate Studio. 1 to 6 hours. Prerequisite: graduate standing—30 hours. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

G6033 Graduate Studio Painting XI. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

G6040 Graduate Studio. 1 to 6 hours. Prerequisite: graduate standing—30 hours. May be repeated with change of subject; maximum credit 12 hours. Individual problems in major studio area, with a choice of medium. (F, Sp, Su)

G6043 Graduate Studio Printmaking XI. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

G6053 Graduate Studio Sculpture XI. Prerequisite: graduate standing in Art. Individual problems in the sculpture studio area. (Irreg.)

G6063 Graduate Studio Photography XI. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

G6073 Graduate Studio Film/Video XI. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

G6093 Graduate Studio Visual Communications XI. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)

G6113 Graduate Studio Ceramics XII. Prerequisite: graduate standing in Art. Individual problems in the ceramics studio area. (Irreg.)

G6133 Graduate Studio Painting XII. Prerequisite: graduate standing in Art. Individual problems in the painting studio area. (Irreg.)

G6143 Graduate Studio Printmaking XII. Prerequisite: graduate standing in Art. Individual problems in the printmaking studio area. (Irreg.)

G6163 Graduate Studio Photography XII. Prerequisite: graduate standing in Art. Individual problems in the photography studio area. (Irreg.)

G6173 Graduate Studio Film/Video XII. Prerequisite: graduate standing in Art. Individual problems in the film/video studio area. (Irreg.)

G6193 Graduate Studio Visual Communications XII. Prerequisite: graduate standing in Art. Individual problems in visual communications area. (Irreg.)
Art for Non-Majors (ARNM)

1003 Art for Non-Majors: Two-Dimensional. May be repeated; maximum credit six hours. Provides students who are not art majors with an introduction to the basic studio processes of painting and drawing. (Irreg.)

2003 Art for Non-Majors: Three-Dimensional. Prerequisite: 1003. May be repeated; maximum credit six hours. Provides students who are not art majors with an introduction to the basic studio processes of three-dimensional design and construction. (Irreg.)

Art History (A HI)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

1113 The Understanding of Art. Explanation and analysis of the principles underlying the visual arts. Consideration of formal, historical and other factors in the valuation and enjoyment of painting, sculpture, architecture and utilitarian objects. (F, Sp, Su) [IV-AF]

2213 General Survey I. The visual arts from the prehistoric through the Renaissance. (F) [IV-AF]

2223 General Survey II. The visual arts from the Renaissance to the present. (F, Sp, Su) [IV-AF]

The prerequisite for courses in Art History numbered 3000 to 4000 is 1113 or 2213 or 2223.

3133 Survey of Aegean Art and Architecture. Prerequisite: junior standing. Understanding of art and architecture of the Aegean civilization. The focus of the course will be on artistic production of the island of Crete and to a lesser extent Cycladic and Mycenaean achievements in the Bronze Age Greece. (alt. Sp)

3213 Classical Art and Archaeology: Greek Art to the Death of Alexander (Crosslisted with Classical Culture 3213). Prerequisite: sophomore standing. Lectures, occasionally illustrated, and assigned readings. Survey of the architecture, sculpture, painting and minor arts in the Greek regions of the eastern Mediterranean in the successive stages of their development, with analyses of dominant styles and detailed study of select masterpieces and monuments. (F) [IV-AF]

3223 Classical Art and Archaeology: Hellenistic Greek Art; Roman Art (Crosslisted with Classical Culture 3223). Prerequisite: sophomore standing. Continuation of 3213. Survey of Hellenistic art, with particular attention to the individuality of style and diversity of matter. Early Etruscan and Roman art. The development of Roman art in native and assimilated forms; studies in domestic and national monuments. (Sp) [IV-AF]

3263 Survey of Byzantine Art and Architecture. Prerequisite: junior standing. A survey of Byzantine monuments from the foundation of Constantinople in 330 CE to its fall in 1453. (Sp-Alt)

3673 History of Visual Communications. Prerequisite: junior standing. The history of visual communications and design from prehistoric times to the twentieth century. (Sp)

3753 History of Interior Design, Early Civilization to 1800 (Crosslisted with Interior Design 3753). Historical survey of architectural interiors and of the decorative arts from prehistory to 1800. Readings, lectures and discussion about the art, composition, and the aesthetic theories that give value to historical interiors. (F) [IV-WC]

3763 History of Interior Design, 19th and 20th Centuries. (Crosslisted with Interior Design 3763). Prerequisite: 3753 or permission. History of interior with emphasis on cultural and socio-economic factors which led to their development. Emphasis on designers and patrons and on the major furnishings styles and design ideas of the nineteenth and twentieth centuries. (Sp)

3803 Pre-Columbian Art and Architecture of Meso- and South America. Prerequisite: 2213 or 2223. An overview of Pre-Columbian art and architecture in Meso-America and South America from Prehistoric times until the Spanish intervention in the early 1500s. (F, Alternate) [IV-NW]

4113 Cycladic Art (Slashlisted with 5113). Prerequisite: junior standing. The Bronze Age culture of the Aegean Islands with special emphasis on Cycladic idols and monumental paintings on the island of Thera (Santorini). No student may earn credit for both 4113 and 5113. (Sp-Alternate)

4123 Minoan Art and Architecture (Slashlisted with 5123). Prerequisite: junior standing. Examination and interpretation of Minoan palatial architecture and related art production on the island of Crete. No student may earn credit for both 4123 and 5123. (Sp-Alternate)

4143 Mycenaean Art and Architecture (Slashlisted with 5143). Prerequisite: junior standing. Art of mainland Greece with particular attention to Mycenaean settlements and funeral practices. No student may earn credit for both 4143 and 5143. (Sp-Alternate)
4163 Etruscan Art (Slashlisted with 5163). Prerequisite: junior standing or permission of instructor. Examine and interpret selected works of Etruscan art in reference to the possible influences from the social, political, economic, literary, and religious “climate” of the time. No student may earn credit for both 4163 and 5163. (F) [IV-WC]

4203 Reflections on Western Art (Slashlisted with 5203). Prerequisite: junior standing or permission of instructor. Addresses such issues as an iconographical review of scholarship in Western art, an examination of core issues in American and Western art today, patronage, science, sentiment and style, the narrative tradition in Western painting, landscapes east and west, a resurgence of narrative, the Tao modism, modernist traditions in Western art, and Western art and its institutions today. Two field trips are planned. Students will give an oral presentation related to a topic discussed in class. No student may earn credit for both 4203 and 5203. (Irreg.) [IV-AVF]

4233 Medieval Art I: Early Christian to c. 1100 (Slashlisted with 5233). Prerequisite: junior standing. A study of Western art and architecture from the early Christian period (fourth century) through the Early Romanesque period (about 1100). Studies of Byzantine, Migratory, Insular, Hispano-Islamic, Carolingian and Ottonian art included. No student may earn credit for both 4233 and 5233. (Alt. F) [IV-WC]

4243 Medieval Art II: Romanesque (Slashlisted with 5243). Prerequisite: junior standing. European and Medieval art of 11th and 12th centuries. Romanesque, the first pan-European art style, is formulated during a period of urban growth and the beginning of the university system. One of the most significant achievements during the Romanesque is the sculpted iconographical portal. No student may earn credit for both 4243 and 5243. (Alt. Sp) [IV-WC]

4253 Medieval Art III: Gothic (Slashlisted with 5253). Prerequisite: junior standing. European late Medieval art from mid-12th century to mid-15th century. Beginning with Gothic and continuing into early Renaissance, when two distinct styles come about simultaneously: Flemish and early Renaissance. No student may earn credit for both 4253 and 5253. (Alt. F) [IV-WC]

4263 Byzantine Art. Prerequisite: junior standing or permission of instructor. Art and architecture of the Byzantine period, from the foundation of the empire to its fall in 1453. (F) [IV-AVF]

4273 Byzantine Icons (Slashlisted with 5273). Prerequisite: junior standing. Byzantine images occupy a principal position at the heart of the Eastern Church and they are an organic part of daily services. The icon represents a vision of the invisible, and therefore a vision founded on divine knowledge which transforms the created work into the miracle working image. This class will examine the challenging process of producing holiness and divinity through painting panels. No student may earn credit for both 4273 and 5273. (Irreg.)

4303 Early Renaissance Art in Italy (Slashlisted with 5303). Prerequisite: junior standing. Italian painting, sculpture, and architecture between 1250-1500, emphasizing the birth of the Renaissance from a social and cultural framework. No student may earn credit for both 4303 and 5303. (Irreg.) [IV-WC]

4333 High Renaissance and Mannerist Art in Italy (Slashlisted with 5333). Prerequisite: junior standing. Italian High Renaissance and Mannerist painting, sculpture, and architecture between 1500-1600. No student may earn credit for both 4333 and 5333. (Alt. F) [IV-WC]

4353 Northern Renaissance Art (Slashlisted with 5353). Prerequisite: junior standing. Painting, sculpture, and architecture in Northern Europe from 1400-1600. The course will emphasize painting in Flanders, Germany, and the Netherlands. No student may earn credit for both 4353 and 5353. (Alt. F) [IV-WC]

4373 The Italian City: Renaissance and Baroque Architecture (Slashlisted with 5373). Prerequisite: junior standing. Architecture and urban planning of Italy from about 1300-1700. Emphasis on the growth of the city and how new forms of social interaction affected the development of architecture and the urban setting. No student may earn credit for both 4373 and 5373. (Alt. F) [IV-WC]

4403 Southern Baroque Art (Slashlisted with 5403). Italian painting, sculpture, and architecture from 1600-1700. This course will emphasize the effects of the Counter-Reformation on art and artists in Rome. No student may earn credit for both 4403 and 5403. (F-alternate) [IV-WC]

4503 Art of the 18th Century, The Age of Enlightenment (Slashlisted with 5503). Prerequisite: junior standing. Emphasizes the interaction of art with scientific, literary, historic and philosophical innovations of the eighteenth century. Content includes painting, sculpture and architecture of Northern Europe. No student may earn credit for both 4503 and 5503. (Alt. Sp) [IV-WC]

4553 Nineteenth-Century Art (Slashlisted with 5553). Prerequisite: junior standing. European art from the French Revolution to 1900, with particular emphasis on developments in French painting. Brief consideration of parallel trends in American art. No student may earn credit for both 4553 and 5553. (Irreg.) [IV-WC]

4603 American Art (Slashlisted with 5603). Prerequisite: junior standing. American art from the colonial period to 1950. No student may earn credit for both 4603 and 5603. (F) [IV-WC]

4613 Readings in Twentieth-Century Art (Slashlisted with 5613). Prerequisite: permission of instructor. Explores the cultural/intellectual content of the Fauves, German Expressionists, Cubists, Constructivists, Futurists, Dadas, Surrealists, etc., through artists’ and critics’ writings as well as other arts such as poetry, drama and dance. Readings, presentations, and critical writings will be assigned. No student may earn credit for both 4613 and 5613. (Irreg.) [IV-WC]

4633 Modern Art: Cezanne to 1950 (Slashlisted with 5633). Prerequisite: junior standing. European art from Post-Impressionism to 1950, including some American developments. Emphasis on painting and sculpture, with some consideration of architecture. No student may earn credit for both 4633 and 5633. (Sp) [IV-WC]

4634 Art Since World War II (Slashlisted with 5653). Prerequisite: 1113 or 2213 or 2223. Recent developments in art, both in the United States and abroad. No student may earn credit for both 4653 and 5653. (Irreg.) [IV-WC]

4663 Women in Contemporary Art (Slashlisted with 5663). Prerequisite: permission of instructor. Discussions concerning women’s issues in contemporary art, current women artists and their art works. The notion of a “female sensibility” will be examined. Students will engage in individual and group presentations, both of artists and critical issues. Essay writing and preparation of bibliographies. No student may earn credit for both 4663 and 5663. (Irreg.) [IV-WC]

4673 Modern Sculpture (Slashlisted with 5673). Prerequisite: junior standing. A study of changing concepts in sculpture from neo-classicism to the present day. No student may earn credit for both 4673 and 5673. (Irreg.) [IV-WC]

4703 History of Photography 1839-1945 (Slashlisted with 5703). Prerequisite: junior standing. A survey of the history of photography from 1839 to 1945. Topics include photography as art; social, technical, mechanical, scientific and aesthetic factors in the development of the medium. No student may earn credit for both 4703 and 5703. (Irreg.) [IV-AF]

4713 History of Photography: 1945-Present (Slashlisted with 5713). Prerequisite: junior standing. A survey of the principal movements, ideas and motifs of photography from post-World War II until the 1990’s. No student may earn credit for both 4713 and 5713. (Irreg.) [IV-AF]

4743 The American West in Art, Photography, and Popular Culture (Slashlisted with 5743). Prerequisite: junior standing or permission of instructor. Focuses on the study of the Trans-Mississippi West, as seen through the eyes of artists and photographers from the early 19th century until today. A variety of media will be discussed, including paintings, prints, photography, and sculpture. The purpose of the course will be primarily to study Euro-American artistic conventions/tradition and how they have been employed in defining western history, culture, and native peoples as fact, fiction, and myth. No student may earn credit for both 4743 and 5743. (Irreg.) [IV-AF]

4803 Survey I: North American Indian Prehistoric Art (Slashlisted with 5803). Prerequisite: junior standing. Emphasis on the indigenous arts of the Arctic, Alaska, Canada, California, Great Basin and North American desert Southwest. Interdisciplinary methodology used to provide a broad view of cultures, artistic development and resultant art forms. Non-Western philosophical basis of the arts discussed in relationship to varied belief systems and social customs. No student may earn credit for both 4803 and 5803. (Sp) [IV-NW]

4813 Nineteenth Century North American Indian Art History (Slashlisted with 5813). Prerequisite: junior standing. Arts of North American Indians during the 19th century. Interdisciplinary methodology delineates major cultural areas and contexts within which arts were created, issues of Euro-American influences and adaptation of new materials and styles. Maintenance of traditional conventions by native artists addressed. No student may earn credit for both 4813 and 5813. (Alt. Sp) [IV-NW]

4823 20th-Century American Indian Art History (Slashlisted with 5823). Prerequisite: junior standing. Examination and study of the arts of North American Indians. Included in the survey will be the examination of new materials, styles, and the shifts of gender roles in the creative arts. No student may earn credit for both 4823 and 5823. (F) [IV-NW]

4832 Survey II: North American Indian Prehistoric Art (Slashlisted with 5832). Prerequisite: junior standing. Prehistory of North American Indian arts of northern and southeastern United States. Includes the Adena and Hopewell people, the early cultures of Florida, later Mississippian and Caddoan people. Includes fiber arts, pottery, painting, sculpture and architecture, as well as a non-Western philosophical view of iconography and underlying meanings. No student may earn credit for both 4833 and 5833. (F) [IV-NW]

4843 20th Century Hispanic and Latin American Art History (Slashlisted with 5843). Prerequisite: junior standing. Visual arts of Mexico, Central and South America. Interdisciplinary methodology includes painting, sculpture,
photography, video, installations, pottery, and weaving. No student may earn credit for both 4843 and 5843. (F) [AVWC]

4873 Japanese Art (Slashedlist with 5873). Prerequisite: junior standing or permission of instructor. Examines and interprets selected works of Japanese art from prehistory to the present in reference to the possible influences from the social, political, economic, literary, and religious “climate” of the time. No student may earn credit for both 4873 and 5873. (Irreg.) [AV-WW]

4913 Seminar (Slashedlist with 5913). Prerequisite: permission of instructor. May be repeated with change of content; maximum credit twelve hours. Advanced topics in art history. No student may earn credit for both 4913 and 5913. (Irreg.)

G4930 Special Topics. 2 to 6 hours. Prerequisite: permission of instructor. May be repeated with change of topic; maximum credit 12 hours. Courses in special topics not included in the established curriculum. (Irreg.)

4953 Museum Studies (Slashedlist with 5953). Prerequisite: senior standing. Analysis of problems in collecting, authenticating, exhibiting and conserving works of art. Attention is also given to museum architecture and administration, as well as to the cultural and educational role of the museum in the community. Field trips, projects and papers are required. No student may earn credit for both 4953 and 5953. (Irreg.)

4973 Directed Readings. Prerequisite: six hours of upper-division art history and permission of instructor. May be repeated; maximum credit six hours. Research culminating in the preparation of papers using technical and critical literature in the history of art. (Irreg.)

4993 Senior Capstone Experience. Prerequisite: senior classification. May not be repeated for credit. Primary objective is to provide a culminating experience for the senior-year student. Satisfies the University-wide General Education Requirement for a capstone course for art history majors. (F, Sp) [V]

G5113 Cycladic Art (Slashedlist with 4113). Prerequisite: graduate standing. The Bronze Age culture of the Aegean Islands with special emphasis on Cycladic idols and monumental paintings on the island of Thera (Santorini). No student may earn credit for both 4113 and 5113. (Sp-alternate)

G5123 Minoan Art and Architecture (Slashedlist with 4123). Prerequisite: graduate standing. Examination and interpretation of Minoan palatial architecture and related art production on the island of Crete. No student may earn credit for both 4123 and 5123. (Sp-alternate)

G5143 Mycenaean Art and Architecture (Slashedlist with 4143). Prerequisite: graduate standing. Art of mainland Greece with particular attention to Mycenaean settlements and funeral practices. No student may earn credit for both 4143 and 5143. (Sp-alternate)

G5163 Etruscan Art (Slashedlist with 4163). Prerequisite: graduate standing or permission of instructor. Examine and interpret selected works of Etruscan art in reference to the possible influences from the social, political, economic, literary, and religious “climate” of the time. No student may earn credit for both 4163 and 5163. (F)

G5203 Reflections on Western Art (Slashedlist with 4203). Prerequisite: 4743 or 5743 and graduate standing. Focus on topics in western American art, contrasting contemporary with traditional interpretations, as well as formal and social implications of the subject. Issues to be considered include gender, ethnicity, historiography and the impact of changing perceptions; western art as historical analogue vs. art as creative expression; and art of frontier America as a form of national identity, as commercial and social exploitation and as aesthetic tradition. Content will concentrate on the 19th and early 20th century painters, sculptors, and print makers who derived artistic themes from the Trans-Mississippi tradition. Content will concentrate on the 19th and early 20th century painters, sculptors, and print makers who derived artistic themes from the Trans-Mississippi tradition. No student may earn credit for both 4203 and 5203. (Sp)

G5210 Graduate Readings. 1 to 6 hours. Prerequisite: graduate standing. May be repeated with change of subject; maximum credit nine hours. Selected readings in art history. (F, Sp)

G5220 Graduate Projects. 1 to 6 hours. Prerequisite: graduate standing. May be repeated with change of subject; maximum credit nine hours. Individual problems on selected topics. (F, Sp)

G5233 Medieval Art I: Early Christian to c. 1100 (Slashedlist with 4233). Prerequisite: graduate standing. A study of Western art and architecture from the early Christian period (fourth century) through the Early Romanesque period (about 1100). Studies of Byzantine, Migratory, Insular, Hispano-Islamic, Carolingian and Ottonian art included. No student may earn credit for both 4233 and 5233. (Alt. F)

G5243 Medieval Art II: Romanesque (Slashedlist with 4243). Prerequisite: 1113 or 2213 or 2223 or permission of instructor. European and Medieval art of 11th and 12th centuries. Romanesque, the first pan-European art style, is formulated during a period of urban growth and the beginning of the university system. One of the most significant achievements during the Romanesque is the iconographical portal. No student may earn credit for both 4243 and 5243. (Sp)

G5253 Medieval Art III: Gothic (Slashedlist with 4253). Prerequisite: 4243 or 5243 or permission of instructor. European late Medieval art from mid-12th century to mid-15th century. Beginning with Gothic and continuing into early Renaissance, when two distinct styles come about simultaneously: Flemish and early Renaissance. No student may earn credit for both 4253 and 5253. (F)

G5273 Byzantine Icons (Slashedlist with 4273). Prerequisite: graduate standing. Byzantine and Islamic images occupy a principal position at the heart of the Eastern Church and they are an organic part of daily services. The icon represents a vision of the invisible, and therefore a vision founded on divine knowledge which transforms the created work into the miracle working image. This class will examine the challenging process of producing holiness and divinity through painting panels. No student may earn credit for both 4273 and 5273. (Irreg.)

G5303 Early Renaissance Art in Italy (Slashedlist with 4303). Italian painting, sculpture, and architecture between 1250-1500, emphasizing the birth of the Renaissance from a social and cultural framework. No student may earn credit for both 4303 and 5303. (Sp-alternate)

G5333 High Renaissance and Mannerist Art in Italy (Slashedlist with 4333). Italian High Renaissance and Mannerist painting, sculpture, and architecture between 1500-1600. No student may earn credit for both 4333 and 5333. (F-alternate)

G5353 Northern Renaissance Art (Slashedlist with 4353). Painting, sculpture and architecture in Northern Europe from 1400-1600. The course will emphasize painting in Flanders, Germany and the Netherlands. No student may earn credit for both 4353 and 5353. (F-alternate)

G5373 The Italian City: Renaissance and Baroque Architecture (Slashedlist with 4373). Architecture and urban planning of Italy from about 1300-1700. Emphasis on the growth of the city and how new forms of social interaction affected the development of architecture and the urban setting. No student may earn credit for both 4373 and 5373. (F-alternate)

G5403 Southern Baroque Art (Slashedlist with 4403). Italian painting, sculpture, architecture from 1600-1700. This course will emphasize the effects of the Counter-Reformation on art and artists in Rome. No student may earn credit for both 4403 and 5403. (F-alternate)

G5503 Art of the 18th Century: The Age of Enlightenment (Slashedlist with 4503). Emphasizes the interaction of art with scientific, literary, historic and philosophical innovations of the eighteenth century. Content includes paintings, sculpture and architecture of Northern Europe. No student may earn credit for both 4503 and 5503. (Sp-every other year)

G5553 Nineteenth-Century Art (Slashedlist with 4553). European art from the French Revolution to 1900, with particular emphasis on developments in French painting. Brief consideration of parallel trends in American art. No student may earn credit for both 4553 and 5553. (Irreg.)

G5603 American Art (Slashedlist with 4603). American art from the colonial period to 1950. No student may earn credit for both 4603 and 5603. (Irreg.)

G5613 Readings in Twentieth-Century Art (Slashedlist with 4613). Prerequisite: permission of instructor. Explores the cultural/intellectual context of the Fauves, German Expressionists, Cubists, Constructivists, Futurists, Dadas, Surrealists, and others. Through their writings and paintings as well as other arts such as poetry, drama and dance. Readings, presentations, and critical writings will be assigned. No student may earn credit for both 4613 and 5613. (F)

G5633 Modern Art: Cezanne to 1950 (Slashedlist with 4633). European art from Postimpressionism to 1950, including some American developments. Emphasis on painting and sculpture, with some consideration of architecture. No student may earn credit for both 4633 and 5633. (Sp)

G5635 Art Since World War II (Slashedlist with 4653). Prerequisite: graduate standing. Recent developments in art, both in the United States and abroad. No student may earn credit for both 4653 and 5653. (Sp)

G5663 Women in Contemporary Art (Slashedlist with 4663). Prerequisite: permission of instructor. Discussion concerning women's issues in contemporary art, current women artists and their art works. The notion of a "female sensibility" will be examined. Students will engage in individual and group presentations, both of artists and critical issues. Essay writing and preparation of bibliographies. No student may earn credit for both 4663 and 5663. (Irreg.)

G5673 Modern Sculpture (Slashedlist with 4673). A study of changing concepts in sculpture from neo-classicism to the present day. No student may earn credit for both 4673 and 5673. (F)

G5703 History of Photography 1839-1945 (Slashedlist with 4703). A survey of the history of photography from 1839 to 1945. Topics include photography as art; social, technical, mechanical, scientific and aesthetic factors in the development of the medium. No student may earn credit for both 4703 and 5703. (Irreg.)
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G5713 History of Photography: 1945-Present (Slashlisted with 4713). Prerequisite: graduate standing or permission of instructor. A survey of the principal movements, ideas and motifs of photography from post-World War II until the 1990’s. No student may earn credit for both 4713 and 5713. (Irreg.)

G5743 The American West in Art, Photography, and Popular Culture (Slashlisted with 4743). Prerequisite: graduate standing. Focuses on the study of the Trans-Mississippi West, as seen through the eyes of artists and photographers from the early 19th century until today. A variety of media will be discussed, including paintings, prints, photography, and sculpture. The purpose of the course will be primarily to study Euro-American artistic conventions/tradition and how they have been employed in defining western history, culture, and native peoples as fact, fiction, and myth. No student may earn credit for both 4743 and 5743. (Irreg.)

G5803 Survey I: North American Indian Prehistoric Art (Slashlisted with 4803). Prerequisite: graduate standing. Ancient arts of the Arctic, Alaska, Canada, California, Great Basin and North American desert Southwest. Interdisciplinary methodology used to provide a broad view of cultures, artistic development and resultant art forms. Non-Western philosophical basis of the arts discussed in relationship to varied belief systems and social customs. No student may earn credit for both 4803 and 5803. (Sp)

G5813 Nineteenth Century North American Indian Art History (Slashlisted with 4813). Prerequisite: graduate standing. Arts of North American Indians during the 19th century. Interdisciplinary methodology delineates major cultural areas and contexts within which arts were created. Issues of Euro-American influences and adaptation of new materials and styles. Maintenance of traditional conventions by native artists addressed. No student may earn credit for both 4813 and 5813. (Alt. Sp)

G5823 20th-Century American Indian Art History (Slashlisted with 4823). Prerequisite: junior standing. Examination and study of the arts of North American Indians. Included in the survey will be the examination of new materials, styles, and the shifts of gender roles in the creative arts. No student may earn credit for both 4823 and 5823. (F)

G5833 Survey II: North American Indian Prehistoric Art (Slashlisted with 4833). Prerequisite: graduate standing. Prehistory of North American Indian arts of northern and southeastern United States. Includes the Adena and Hopewell people, the early cultures of Florida, later Mississippian and Caddoan people. Includes fiber arts, pottery, painting, sculpture and architecture, as well as a non-Western philosophical view of iconography and underlying meanings. No student may earn credit for both 4833 and 5833. (F)

G5843 20th Century Hispanic and Latin American Art History (Slashlisted with 4843). Prerequisite: graduate standing. Visual arts of Mexico, Central and South America. Interdisciplinary methodology includes painting, sculpture, photography, video, installations, pottery, and weaving. No student may earn credit for both 4843 and 5843. (F)

G5873 Japanese Art (Slashlisted with 4873). Prerequisite: graduate standing. Art and architecture in Japan from prehistory to the present. No student may earn credit for both 4873 and 5873. (F)

G5903 Methodologies and Theories in Art History. Prerequisite: graduate standing. History of North American Indian arts of northern and southeastern United States. Includes the Adena and Hopewell people, the early cultures of Florida, later Mississippian and Caddoan people. Includes fiber arts, pottery, painting, sculpture and architecture, as well as a non-Western philosophical view of iconography and underlying meanings. No student may earn credit for both 4833 and 5833. (F)

G5913 Seminar (Slashlisted with 4913). Prerequisite: permission of instructor. May be repeated with change of content; maximum credit twelve hours. Advanced topics in art history. No student may earn credit for both 4913 and 5913. (Irreg.)

G5953 Museum Studies (Slashlisted with 4953). Analysis of problems in collecting, authenticating, exhibiting and conserving works of art. Attention is also given to museum architecture and administration, as well as to the cultural and educational role of the museum in the community. Field trips, projects and papers are required. No student may earn credit for both 4953 and 5953. (Irreg.)

G5973 Directed Readings. Prerequisite: permission of instructor. May be repeated; maximum credit six hours. Research culminating in the preparation of papers using technical and critical literature in the history of art. (Irreg.)

G5980 Research for Master’s Thesis. 2 to 9 hours. May be repeated for credit; maximum credit applicable toward degree, four hours. Directed research culminating in the completion of the master’s thesis. (F, Sp, Su)

G5993 Special Studies. Prerequisite: graduate standing. May be repeated; maximum credit twelve hours. Advanced studies in various periods of art history, given under stated titles determined semester by the instructor involved. (Irreg.)

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Art Theory and Criticism (ARTC)

1003 Introduction to Art Theory I. Corequisite: ART 1013 and 1023. Emphasis on critical thinking and a broad introduction to the aesthetic vocabulary of form, concept, criticism, and historical theories in the visual arts. Students will develop skills to articulate and defend a critical position about an artist, piece of work, or an exhibition through written and oral presentation. (F, Sp)

1103 Introduction to Art Theory II. Prerequisite: 1003; corequisite: ART 1113. Continuation of 1003. Emphasis on development of higher-level critical thinking skills learned from Introduction to Art Theory I. Further discourse of art theories, content, and meaning with emphasis on interpretation and judgement. (F, Sp)

2010 Analysis of the Visual Arts. 1 to 6 hours. For majors only. May be repeated; maximum credit 12 hours. Selected problems in the perception of art. Format and content changes with current needs. (F, Sp)

2803 Media Arts Fundamentals. Prerequisite: permission of department. Art majors only. Introduction to concepts and practices in media arts with exposure to a variety of media including film, video, photography, and new media. (F)

2913 Media Arts: Critical History and Analysis. Prerequisite: 2010 or 2803 or permission of instructor. May be repeated once with change of topic. Critical review of the media arts. Rotating topics may view media arts in the context of history, genre, medium cultural reference, or other related areas. (Irreg.)

3750 Special Topics in Art Theory and Criticism. Prerequisite: junior standing. May be repeated with change of content; maximum credit six hours. Covers various topics dealing with diverse issues relating to the visual arts. (Irreg.)

3943 Media Arts Seminar. Prerequisite: 2010 or 2803 or permission of instructor. May be repeated with change of topic; maximum credit nine hours. Seminar presents topics that are related to the media arts which may not utilize production as an element of the course. Topics may include but are not limited to critical viewing of specific genres of work, producing methods, and current issues within media arts culture. (Irreg.)

4433 Seminar—Contemporary Artist I (Slashlisted with 5433). Prerequisite: junior standing. May be repeated once with change of content; maximum credit six hours. Specific artists change each semester. The seminar presents the work of artists that deals with issues of race, class and gender as well as formalist modes. The aim is to facilitate the student/artist to perceive of his or her own works of art in a thoughtful manner. No student may earn credit for both 4433 and 5433. (F, Sp)

4443 Seminar—Contemporary Artist II (Slashlisted with 5443). Prerequisite: junior standing. May be repeated once with change of content; maximum credit six hours. Specific artists change each semester. The seminar presents the work of artists that deals with issues of race, class and gender as well as formalist modes. The aim is to facilitate the student/artist to perceive of his or her own works of art in a thoughtful manner. No student may earn credit for both 4443 and 5443. (F, Sp)

4693 Contemporary Native American Art. Prerequisite: junior standing. Discussion of the broad and modern sensibilities that exist and make up the contemporary diversity of the indigenous arts and people of the North American hemisphere. May include but not limited to artistic dealing with race, class, tribal sovereignty as well as formalist modes. Introduction to a survey of common methods of contemporary artistic practice. (Irreg.)

4893 Contemporary Native American Art II (Slashlisted with 5893). Prerequisite: junior standing. A continuation of 4693. Student will learn the modern sensibilities that make up the contemporary diversity of indigenous arts and people of this hemisphere. No student may earn credit for both 4893 and 5893. (Sp)

4913 Special Topics in Theory and Criticism (Slashlisted with 5913). Prerequisite: junior standing. May be repeated with change of content; maximum credit six hours. Covers various topics dealing with diverse issues relating to the visual arts. No student may earn credit for the same topic for both 4913 and 5913. (Irreg.)

4923 Special Topics in Art Theory and Criticism. Prerequisite: junior standing. May be repeated with change of content; maximum credit six hours. Covers various topics dealing with diverse issues relating to the visual arts. (Irreg.)

G5013 Graduate Seminar. Prerequisite: graduate standing. A required course during the first semester that focuses upon developing an informed approach to the art making process. It will utilize readings, writings, and visual references to form a basis for discussions. Each student will conduct a presentation on the aesthetic basis of their own work to the class. (F, Sp)
Astronomy (ASTR)

1504 General Astronomy. An introduction to the concepts of modern astronomy. The solar system, the sun and stars, the Milky Way and other galaxies, current theories of the origin, evolution, and fate of the universe. Not for major credit. Students cannot receive credit in both 1504 and 1514. Laboratory (F, Sp, Su) [II-LAB]

2512 Elements of Astronomy. Prerequisite: algebra, plane geometry, Ancient and modern world systems, the law of gravitation with elementary applications, time, calendar; telescopes and accessories; the sun, the solar system and its origin; stellar motions and galactic structure, astronomical distance scales. (F)

2513 Observatory Methods. Corequisite: Physics 1215 or 2524, or permission of instructor. Elements of astronomy. Includes celestial coordinates, time, catalog, star charts, magnitudes and color indices, an introduction to telescopes and detectors, electromagnetic radiation and basic atomic physics, error analysis, elements of astronomical optics. (F)

2522 Elements of Mathematical Astronomy. Prerequisite: algebra, plane geometry, elementary calculus. Spherical trigonometry and its applications to navigation and surveying. Planetary motions, principles of space travel. Stellar motions; a nonmathematical introduction to cosmology. Some laboratory and telescopic work. (Sp)

3102 Stars. Prerequisite: 2513 or permission of instructor. Stellar properties and stellar evolution. Includes fundamental properties of stars (temperature, luminosity, mass) and how to determine them, star formation, main sequence, post main sequence, supernovae, black holes, neutron stars, white dwarfs, binary stars. (F)

3113 Galaxies and Cosmology. Prerequisite: 2513 or permission of instructor; 3103 strongly recommended. Galactic and extragalactic astronomy. Includes the Milky Way galaxy, the interstellar medium, normal and active galaxies, clusters of galaxies, cosmology. (Sp)

3190 Topics in Astronomy. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. (F, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Sp, Su)

4303 Stellar Astrophysics. Prerequisite: 3113 or permission of instructor. Physics of stars: gas and radiation laws, stellar atmospheres and spectra, stellar interiors and evolution. (F)

4590 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

4593 Contemporary Native American Artist II (Slashlisted with 4893). Prerequisite: graduate standing. A continuation of 5693. Student will learn the modern sensibilities that make up the contemporary diversity of indigenous arts and people of this hemisphere. No student may earn credit for both 4893 and 5893. (Sp)

5313 Special Topics in Theory and Criticism (Slashlisted with 4913). Prerequisite: graduate standing. May be repeated once with change of content; maximum credit six hours. Specific artists change each semester. The seminar presents the work of artists that deals with issues of race, class and gender as well as formalist modes. The aim is to facilitate the student/artist to perceive of his or her own works of art in a thoughtful manner. No student may earn credit for both 4443 and 5433. (F, Sp)

5433 Seminar—Contemporary Artist I (Slashlisted with 4433). Prerequisite: junior standing. May be repeated once with change of content; maximum credit six hours. Specific artists change each semester. The seminar presents the work of artists that deals with issues of race, class and gender as well as formalist modes. The aim is to facilitate the student/artist to perceive of his or her own works of art in a thoughtful manner. No student may earn credit for both 4433 and 5433. (F, Sp)

5893 Galactic Astronomy. Prerequisite: 4303 or permission of instructor. Basic properties of galaxies are explored with special focus on the Milky Way. Topics include galaxy classification and morphology, stellar populations, clusters and kinematics, interstellar medium, distributions of mass and light, spiral structure, chemical evolution, systemic rotation and galaxy mass, and distance-determining methods. (Irreg.)

5893 G5433 Galactic Astronomy, 1ero 4303 or permission of instructor. Basic properties of galaxies are explored with special focus on the Milky Way. Topics include galaxy classification and morphology, stellar populations, clusters and kinematics, interstellar medium, distributions of mass and light, spiral structure, chemical evolution, systemic rotation and galaxy mass, and distance-determining methods. (Irreg.)

5843 Extragalactic Astronomy and Cosmology. Prerequisite: 3113 or 4303 or permission of instructor. Basic properties of stars. Review of observational tools for extragalactic work. Stellar content and interstellar medium in normal galaxies. Introduction to the theory of Big Bang cosmology. Comparison of observational data to cosmological predictions. The extragalactic distance scale and the age of the universe. Large scale structure: galaxy clusters and superclusters. Active galaxies—radio galaxies and quasars. (Irreg.)

5463 Stellar Atmospheres. Prerequisite: 4303 or permission of instructor. Local thermodynamic equilibrium. Radiative transfer, continuous absorption coefficient and model stellar atmospheres. Atomic and molecular spectroscopy and the quantitative analysis of stellar spectra. Atomic processes and departures from local thermodynamic equilibrium. Extended and expanding atmospheres, novae, supernovae. (Irreg.)

5473 Stellar Interiors. Prerequisite: 4303 or permission of instructor. Evolution and energy balance of stars including gravitational attraction, nucleosynthesis, radiative and convective energy, transport and equilibrium, construction of stellar models for pre-main sequence and main sequence stars, and the theory of giants and white dwarfs. (Irreg.)

5513 Interstellar Medium. Prerequisite: 4303 or permission of instructor. Processes in low-density media are explored, including the physics relevant to emission line objects such as HII and HII regions, molecular clouds, and active galaxies. Techniques for deriving chemical abundances are explored, as are interstellar absorption by gas and dust and radiation transfer. (Irreg.)

5500 Seminar in Astrophysics. Prerequisite: permission of instructor. May be repeated with different content; maximum credit nine hours. A research seminar devoted to the study of specialized topics in astronomy and astrophysics. Topics selected will reflect the interest of the instructor and students. (Irreg.)

Aviation (AVIA)


1113 Introduction to Aviation. Prepares students to take the FAA private pilot written examination. Covers FARs, meteorology, aerodynamics, flight physiology, performance charts, radio navigation techniques. (F, Sp, Su)

1222 Primary Flying. Prerequisite: 1113. Includes in-flight instruction with effort directed toward obtaining FAA certification as a private pilot. Third class medical must be obtained prior to solo. (F, Sp, Su)

2231 Advanced Flying. Prerequisite: 1222 or private pilot certificate. (F, Sp, Su)

2341 Secondary Flying. Prerequisite: 2231. Consists of cross-country experience under the direct supervision of an instructor pilot. Part of the FAA Part 141 commercial certification course. (F, Sp, Su)

2513 The History of Aviation. Chronicles the history of aviation through an in-depth study of powered flight and focus on the development of civil, commercial, and military aviation. The course will cover significant events and people throughout aviation history from the first powered flight through present day developments and a brief look into the future. Also examines the impact of aviation on recreation, transportation, warfare, and exploration. (F, Sp)

2613 Aviation Safety. Prerequisite: 1113 and 1222. This course will examine all aspects of accidents/incidents involving airline and general aviation flights. It
examine those areas from the perspective of pilots, crew members, air traffic controllers and National Transportation Safety Board (NTSB) findings. Each accident/incident is dissected with the goal of determining what went wrong and lessons that can be learned. (F, Sp)

3013 Career Development for Aviation Professionals. Prerequisite: completed 36 or more college credit hours. This course will provide an overview of the airline and corporate culture that students will experience. Students will master the techniques of self-assessment, resume and letter writing, interviewing, researching companies, proper writing techniques, ethics and etiquette, and networking. This course is intended to help students prepare for internship interviews or entering the aviation industry as a professional. (F, Sp)

3111 Advanced Flight Maneuvers. Prerequisite: 1222 or FAA private pilot certificate. Increase the student’s knowledge and understanding of advanced flight maneuvers. Accelerated stalls, spins, inverted flight, and recovery from unusual altitudes. Advanced aerodynamics will be discussed and demonstrated. (F, Sp, Su)

3113 Commercial Aviation. Prerequisite: 1113 or private pilot certificate. To define the scope and narrow the field of study, insofar as possible, to the knowledge requisite to the commercial pilot certificate. (F, Sp, Su)

3133 Fundamentals of Instrument Flight. Federal aviation regulations as pertain to instrument flight rules, (IFR) weather and forecast products, interpretation of en route low altitude charts and terminal instrument approach procedure depictions, instrument flight procedures and techniques. (F, Sp, Su)

3333 Survey of Aviation Law. Prerequisite: 1113 or junior standing. Survey of legal issues in aviation. The student will review legislation, regulatory agencies, and case studies dealing with legal issues in the medium of airspace above the ground—predominantly over the United States. The student will be able to identify and comprehend the historical events and technical terms that describe national and international legal precedents that have shaped aviation law. (F, Sp)

3513 Airport Operations Management. Prerequisite: 1222. Provides the student with an in-depth analysis of airport management, operations and planning functions necessary to operate, develop, and maintain safe and efficient airport facilities as is the practice in the United States. Also introduces air traffic control (ATC) concepts. (F)

3572 Instrument Flying. Prerequisite: 3133 and private pilot certificate. Individual flight simulator instruction in the technique of flying solely by reference to instruments. Ground instruction in radio navigation, meteorology, instrument approach procedures, air traffic control procedures and federal aviation regulations. (F, Sp, Su)

3581 Multi-engine Flying. Prerequisite: 4552 or commercial pilot certificate. A study of the design, construction and flight characteristics of multiengine aircraft. In-flight instruction in pilotage and operation of multi-engine airplanes. Designed to qualify the student for certification as a multiengine pilot. (F, Sp, Su)

4113 CFI Seminar. Prerequisite: 3133, 3113. Increase student knowledge of theories of learning, flight instructor authority, and responsibility and classroom and flight techniques. Emphasis on principles of instruction, student motivation and maneuver error analysis. (F, Sp, Su)

4133 Turbine Transition. Prerequisite: 3581 and 4552. Introduce the student to the procedures of flying a turbine aircraft and the concepts of crew resource management. Emphasis is placed on the basic terminology and procedures and emergency operations. (F, Sp, Su)

4423 Crew Resource Management. Prerequisite: 3381 and 4552. To teach the student the principles and procedures of a two or more person cockpit. Includes: briefings, call-outs, and emergency procedures. (F, Sp, Su)

4552 Commercial Flying. Prerequisite: 3113. The final stage of the FAA Part 141 commercial pilot certification course. Designed to polish pilot skills in commercial aircraft maneuvers. (F, Sp, Su)

4602 Flight Instructor—Airplane. Prerequisite: commercial pilot certificate and instrument rating. Flight instruction in preparation for FAA flight instructor certificate. (F, Sp, Su)

4613 Instrument Flight Instructor. Prerequisite: commercial pilot certificate and flight instructor-airplane certificate. Consists of lecture and flight instruction in the specialized teaching techniques and procedures required of an instrument flight instructor. At the end of the course, the student will meet the requirements for certification by the FAA as an instrument flight instructor. (F, Sp, Su)

4622 Multiengine Flight Instructor. Prerequisite: commercial multiengine pilot certificate and flight instructor—airplane certificate. Instruction in the specialized teaching techniques and procedures required of a multiengine flight instructor. At the end of the course, the student will meet the requirements to take the flight test for certification by the FAA as a multiengine flight instructor. (F, Sp, Su)

4713 Senior Capstone. Prerequisite: senior standing and permission of instructor; completion of all other major upper-division courses or concurrent enrollment. This project course builds on the accumulated knowledge from all courses to date. Lectures will cover problem identification, analysis, generation of alternatives, cost/benefit studies, interviews and presentations. Student teams will analyze and make recommendations on an actual problem for an aviation related organization, such as the FAA. (F, Sp, Su)

G4983 Airline Management. Prerequisite: junior or graduate standing. Study of the managerial aspects of the airline industry to include economic and organizational characteristics, marketing, operational scheduling, fleet planning, and labor relations. Students participate in management simulation as senior executives of a regional domestic carrier. (F, Sp)

4990 Special Studies in Aviation. 1 to 4 hours. Prerequisite: departmental permission. Will encompass various aviation-related topics including many speciality flight programs; such as, aerobatic instruction, multiengine training, pilot refresher training, etc. (F, Sp, Su)

G5313 Airline Operations and Management. Prerequisite: admission to graduate program in Aviation Management. Provides students with a comprehensive knowledge of the major facets in the process of planning and managing airports in the dynamic post-deregulation era. Students will focus on operations, safety, security, community relations and development of the airport as a sound enterprise function of the United States government. Discussions will focus on the history of the airport-airway system, planning and funding in the airport, managing growth, and fiscal and administrative management processes. (Irreg.)

G5213 Air Transportation Systems. Prerequisite: admission to graduate program in Aviation Management. Provide students with a broad view of the air transportation industry, how it is evolved, and where current trends indicate the industry is headed. The course traces the history of aircraft development and the rise of air carriers, with particular attention to the legislative impact. Emphasis will be placed on the economic characteristics, financing and marketing of both cargo and passenger air carriers, the structure and managerial functions of the airlines, labor relations, and the international dimension of the industry. (Irreg.)

G5313 Aviation History. Prerequisite: admission to graduate program in Aviation Management. In-depth study of five specific topics in aviation history. Included will be significant civilian, commercial, and military events as well as important people, places, and technological development. (Irreg.)

G5940 Graduate Research or Applied Project in Aviation. Prerequisite: graduate course in electronic access to research resources and theory or equivalent. May be repeated; maximum credit four hours. Designed to provide the application of theory to practice in the field of aviation management. Students are encouraged to begin developing a research interest or service project early in their course of study. The project is approved and supervised by a faculty adviser. Working from the perspective of consultant, the student thoroughly investigates the issues and proposes specific actions, using analysis, planning and management tools developed during their course of study. Continuous guidance and feedback are provided by the faculty adviser and sponsor during the project. The completed project will require a comprehensive written report. (F, Sp, Su)

The University of Oklahoma

Botany (BOT)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashed course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashed course syllabus.

1005 Concepts in Biology (Crosslisted with Microbiology, Zoology 1005). Prerequisite: none, but high school or college chemistry is recommended. An introduction to the life sciences, focusing on the structure and function of organisms and their relationship to the environment. Fulfills General Education laboratory science requirement. Not open to students with credit for Botany 1114 or Zoology 1114. Laboratory (F, Sp) II-LAB

1114 General Botany. Previous course in chemistry (high school or college) recommended. Fulfills Arts and Sciences’ biological science requirement. Basic processes and structures in plants; their relation to factors in the environment; reproduction; hereditary and nonheritable variations in plants and their causes and consequences are studied. Scientific procedures are acquired through application and discussion. Laboratory (F, Sp, Su) II-LAB

2404 Ecology and Environmental Quality (Crosslisted with Zoology 2404). Prerequisite: sophomore standing. Study of ecological principles and their
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Botany (BOT)

Applications to human systems, study of population, air pollution, water pollution, energy issues, etc. Laboratory exercises focus on learning scientific methods of measurement of environmental quality factors. Laboratory (Sp) [II-LAB]

2503 Plant Care and Cultivation. Prerequisite: 1005 or 1114. Application of the principles of botany to the cultivation, propagation, and maintenance of plants grown in home environments. Particular attention is given to the effects of water, nutrients, and soil factors on vegetative propagation; pest control; and proper conditions for cultivated plants. (F)

3113 Cell Biology (Crosslisted with Microbiology, Zoology 3113). Prerequisite: 1114 or Zoology 1114 and Chemistry 3013 or 3053. Introduction to the cell as a unit of life. A chemical and physical comparison of prokaryotic and eukaryotic cells to include a discussion of cell metabolism, types of metabolic regulation and an analysis of ultrastructure. Emphasis will be placed on the dynamic changes in metabolism and ultrastructure which occur during the life of a cell. (F, Sp)

3163 Economic Botany. Prerequisite: introductory biology, 1005, Zoology 1005, 1114, or Zoology 1114. A survey of plants and plant products used in industry, drug plants and drugs, and especially food plants and food adjuncts. Origin of agriculture, domestication and evolution of crop plants, and use of plants in different cultures are emphasized. (F) [IV-WC]

†G3333 Genetics (Crosslisted with Zoology 3333). Prerequisite: eight hours of zoology or eight hours of botany, or five hours of zoology or botany and permission. Principles of inheritance at gene, chromosome and population levels; nature of the genetic material and its involvement in the determination of structure and function. No laboratory. (F, Sp)

†G3342 Genetics Laboratory (Crosslisted with Zoology 3342). Prerequisite: 3313 or concurrent enrollment or equivalent. The demonstrations, crosses and experiments are designed to illustrate various genetic phenomena, including Mendelian laws, recombination, mutation, natural and artificial selection and interaction of genotype with environment. The primary organism studied is Drosophila, with some use of corn, Neurospora and other organisms. Laboratory (F)

†G3451 Methods in Plant Ecology. Corequisite: 3453. Methodology in plant physiological, population, community and ecosystem ecology will be covered. Emphasis will be on actual field or laboratory experience and the applicability of these methods to other areas of ecology. Laboratory (F)

†G2453 Principles of Plant Ecology. Prerequisite: 3534 or equivalent. Introduction to physiological, population and community ecology. Emphasis is placed on environmental factors, disturbance and succession and how these factors affect species diversity and landscape patterns. One optional field trip. (F)

3534 Flowering Plants. Prerequisite: 1114 or six hours of biology or permission of instructor. Introduction to the classification of vascular plants with emphasis on the origin, evolutionary relationships and reproductive biology of the flowering plants. Laboratory activities stress identification skills, terminology, field techniques and family recognition for the flora of Oklahoma. Field trips. Laboratory (Sp)

†G2932 Instrumental Methods in Biology (Crosslisted with Microbiology 3932). Prerequisite: one of the following-4115; Microbiology 2815; Zoology 2124 or one course in biochemistry; Physics 2414 and 2424. Principles of analytical measurements; common categories of instruments; advantages and disadvantages of each method; examples are chosen from medical technology, environmental technology, biochemistry, physiology, etc. (F)

†G2942 Instrumental Methods Laboratory (Crosslisted with Microbiology 3942). Prerequisite: credit or concurrent enrollment in 3932. Hands-on experience with analytical instruments used in research and clinical labs; identification of components and simple repairs; understanding measurement principles; assay design and analysis of unknowns; treatment and comparison of data. Laboratory (F)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. (By request)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G4115 Principles of Plant Physiology. Prerequisite: 1114 and organic chemistry. The physiology of green plants, including respiration, photosynthesis, metabolism of carbohydrates, fats and proteins, mineral nutrition, translocation, water relations, growth and development. Laboratory (F)

G4283 Plant Anatomy. Prerequisite: seven hours in biology or permission of instructor. The structure and development of the organs of vascular plants as revealed by observations of representative living and prepared specimens. Theories concerning the evolution of organs and internal structure. (Sp odd-numbered years)

4413 Paleobotany (Crosslisted with Geology 4413; Slashlisted with 5413). Prerequisite: permission of instructor. Introduction to the fossil record of terrestrial plants from algae to flowering plants. Lectures will address anatomy, morphology, taphonomy and paleoecology, including climate and plant-animal interactions. Laboratories will put lecture topics into practice using fossil plants from the Oklahoma Museum of Natural History collection and from fieldwork. Field trips. No student may earn credit for both 4413 and 5413. Laboratory (Sp, even-numbered years)

4553 Plant Geography (Slashlisted with 5553). Prerequisite: 3453, 3534, or permission of instructor. Analysis of the evolutional, ecological, genetic and historical factors that affect present-day distributional patterns of plants on continents and islands. Particular emphasis is directed to range disjunctions and endemism as well as the effects of continental drift, geoclimatic changes, dispersal, polyolypdy and phylogeny on the flora of North America. No student may earn credit for both 4553 and 5553. (F odd-numbered years)

4561 Field Studies (Slashlisted with 5561). Prerequisite: 3453, 3534, or permission of instructor. May be repeated; maximum credit four hours. Field-based studies of the flora and vegetation of a particular area. Readings and lectures focus on a regional flora, and the geobotanical, physical and ecological factors affecting vegetational patterns and dynamics. Observations of characteristic habitats and plant communities, and identification and recognition of important plants are stressed during field trips. No student may earn credit for both 4561 and 5561. (Irreg.)

4713 Introduction to Nematology (Crosslisted with Microbiology, Zoology 4713; Slashlisted with 5713). Prerequisite: 12 hours of biology. Introduction to the field of nematology including nematodes of importance to human and veterinary medicine, agriculture and the environment. No student may earn credit for both 4713 and 5713. (Irreg.)

4803 Plant Microbe Interactions (Crosslisted with Microbiology 4803; Slashlisted with 5803). Prerequisite: 12 hours of biology. Biochemical, physiological, genetic, ultrastructural and molecular aspects of interactions between plants and their beneficial and harmful symbionts. No student may earn credit for both 4803 and 5803. (Irreg.)

4810 Special Topics (Slashlisted with 5810). 1 to 3 hours. Prerequisite: two courses in botany and permission. May be repeated with change of content; maximum credit three hours per semester; nine hours total. Topics will include newly developing areas of the discipline. Taught at an upper-division level based on previous course background. No student may earn credit for both 4810 and 5810 for the same course content. (Irreg.)

4822 Applications of Molecular Biology (Crosslisted with Microbiology 4822; Slashlisted with 5822). Prerequisite: eight hours of biology and permission of instructor; concurrent enrollment in 4812. Application of molecular biology to research in gene expression discussed with emphasis on how the molecular tools were developed, why they work and how they are used in current research. No student may earn credit for both 4822 and 5822.

4843 Introduction to Molecular Biology (Crosslisted with Microbiology, Zoology 4843; Slashlisted with 5843). Prerequisite: 1114 or Microbiology 3813 and 3812, or Zoology 1114 and one course in organic chemistry. Introduction to the characteristics and biological functions of nucleic acids and proteins in living cells with emphasis on nucleic acid replication, transcription, translation and regulation; also emphasis on the molecular aspects of microbial genetics—transformation, transduction and conjugation; and emphasis on molecular immunology and genetic engineering/recombinant DNA technology. No student may earn credit for both 4843 and 5843. (F, Sp)

4873 Microbial Physiology and Molecular Biology Laboratory (Crosslisted with Microbiology 4873). Prerequisite: junior standing or permission of instructor. Current techniques to explore molecular aspects of gene expression and regulation. Experiments include: plasmid and phage propagation, nucleic acid purification, DNA and protein manipulation, and gene analysis. (F, Sp)

4983 Senior Capstone: Plant Biology for the 21st Century. Prerequisite: 12 hours of botany and senior standing. Interdisciplinary approach to synthesize ideas from the major areas of botany. Readings, research and discussions on the important issues in botany at the present and into the next century; A major written report is required. (Irreg.)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)
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G5032 Radioisotope Techniques (Crosslisted with Civil Engineering, Environmental Science, Microbiology 5032). Prerequisite: graduate standing or equivalent, permission; corequisite 5041. Fundamentals of detection and measurement of ionizing radiation with emphasis on radiotracer experimental design and applications; radiation effects and protection. (Sp)

G5041 Radioisotope Techniques Laboratory (Crosslisted with Civil Engineering, Environmental Science, Microbiology 5041). Corequisite: 5032. Laboratory techniques required for the utilization of radioisotopes in experimental work. Laboratory (Sp)

G5144 Advanced Plant Physiology. Prerequisite: 4115 or equivalent. Current research in nitrogen metabolism in plants, plant nutrition, metabolism, etc. Topics may vary with interests and previous experience of class members. (Sp odd-numbered years)

G5264 Morphology of Vascular Plants. Prerequisite: 12 hours of botany including 2213. The external form and internal structure of representative members of the major groups of vascular plants with emphasis on comparative life histories. The classification and interrelationships of living and extinct forms as revealed by structural data. (Irreg.)

G5293 Cytology Ultrastructure (Crosslisted with Microbiology, Zoology 5293). Prerequisite: 12 hours of biology. A descriptive survey of bacterial, plant and animal cells. Emphasis will be given to the ultrastructural morphology of cellular organelles and their functional significance. (F)

G5364 Transmission Electron Microscopy (Crosslisted with Microbiology, Zoology 5364). Prerequisite: permission. Introduction to the theory of transmission electron microscopy and practical instruction in specimen preparation, ultramicrotomy, instrument operation, photography and quantitative methods of analysis. Laboratory (F)

G5374 Scanning Electron Microscopy (Crosslisted with Chemical Engineering, Microbiology, Zoology 5374). Prerequisite: basic chemistry; basic physics; demonstrated need; permission of instructor. Principles of scanning electron microscopy combined with training in the operation of the SEM and ancillary equipment. Students will be certified in the operation of all equipment. Sample preparation on a variety of samples and darkroom procedures will be performed. Independent project with oral report and poster required. Laboratory (Sp)

G5412 Paleobotany (Crosslisted with Geology 5413; Slashlisted with 4413). Prerequisite: permission of instructor. Introduction to the fossil record of terrestrial plants from algae to flowering plants. Lectures will address anatomy, morphology, taphonomy and paleoecology, including climate and plant-animal interactions. Laboratories will put lecture topics into practice using fossil plants from the Oklahoma Museum of Natural History collection and from fieldwork. Field trips. No student may earn credit for both 4413 and 5413. Laboratory (Sp, even-numbered years)

G5433 Advanced Ecology and Evolutionary Biology (Crosslisted with Microbiology and Zoology 5433). Prerequisite: general ecology. Required for students in the ecology and evolutionary biology doctoral program. An introduction to current research opportunities and research programs in ecology and evolutionary biology at the University of Oklahoma. Specific topics and lecturers will vary from week to week to give students a broad overview of ongoing research projects. (F)

G5471 Seminar in Ecology and Evolutionary Biology (Crosslisted with Microbiology and Zoology). Prerequisite: graduate standing. Two semesters of enrollment are required for students in the ecology and evolutionary biology doctoral program. An intensive, student-based seminar in which students present both proposals and ongoing progress reports on doctoral level research projects in ecology and evolutionary biology. (F, Sp)

G5533 Plant Geography (Slashlisted with 4553). Prerequisite: 3453 or equivalent, 3534. Analysis of the evolutionary, ecological, genetic and historical factors that affect present-day distributional patterns of plants on continents and islands. Particular emphasis is directed to range disjunctions and endemism as well as the effects of continental drift, geomorphologic changes, dispersal, polyploidy and phylogeny on the flora of North America. No student may earn credit for both 4553 and 5553.

G5561 Field Studies (Slashlisted with 4561). Prerequisite: 3453, 3534, or permission of instructor. May be repeated; maximum credit four hours. Field-based studies of the flora and vegetation of a particular area. Readings and lectures focus on a regional flora, and the geohistorical, biogeographic, and ecological factors affecting vegetational patterns and dynamics. Observations of characteristic habitats and plant communities, and identification and recognition of important plants are stressed during field trips. No student may earn credit for both 4561 and 5561. (Irreg.)

G5594 Molecular Systematics. Prerequisite: 3534 or permission of instructor. The systematic, evolutionary, and phylogenetic significance of variation among proteins (isozymes) and nucleic acids (nuclear and plastid DNA) in plants. Readings from the current literature, laboratory techniques, and methods of analyses are stressed. Laboratory (F)

G5620 Investigations in Botany. 1 to 6 hours. Prerequisite: 15 hours of botany, permission. May be repeated; nine hours for a masters student and twelve hours for Ph.D. student. Only six hours allowed with one professor. Fields: Ecology, morphology, physiology, systematics, mycology, anatomy, electron microscopy, plant biology. (F, Su, Sp)

G5713 Introduction to Nematology (Crosslisted with Microbiology, Zoology 5713; Slashlisted with 4713). Prerequisite: 12 hours of biology. Introduction to the field of nematology including nematodes of importance to human and veterinary medicine, agriculture and the environment. No student may earn credit for both 4713 and 5713. (Irreg.)

G5803 Plant Microbe Interactions (Crosslisted with Microbiology 5803; Slashlisted with 4803). Prerequisite: 12 hours of biology. Biochemical, physiological, genetic, ultrastructural and molecular aspects of interactions between plants and their beneficial and harmful symbionts. No student may earn credit for both 4803 and 5803. (Irreg.)

G5810 Special Topics (Slashlisted with 4810). 1 to 3 hours. Prerequisite: two courses in botany and permission. May be repeated with change of content; maximum credit three hours per semester, nine hours total. Topics will include newly developing areas of the discipline. Taught at an upper-division level based on previous course background. No student may earn credit for both 4810 and 5810 for the same course content. (Irreg.)

G5812 Applications of Molecular Biology Laboratory (Crosslisted with Microbiology 5812; Slashlisted with 4812). Prerequisite: concurrent enrollment in 5822. Current techniques to explore molecular aspects of gene expression and regulation. Examination of new and emerging techniques. Laboratory (F)

G5843 Introduction to Molecular Biology (Crosslisted with Microbiology, Zoology 5843; Slashlisted with 4843). Prerequisite: 1114 or Microbiology 3813 and 3812, or Zoology 1114, one course in organic chemistry. Introduction to the characteristics and biological functions of nucleic acids and proteins in living cells with emphasis on nucleic acid replication, transcription, translation and regulation; also emphasis on the molecular aspects of microbial genetics-transformation, transduction and conjugation; and emphasis on molecular immunology and genetic engineering/recombinant DNA technology. No student may earn credit for both 5822 and 5843.

G5843 Introduction to Molecular Biology (Crosslisted with Microbiology, Zoology 5843; Slashlisted with 4843). Prerequisite: 1114 or Microbiology 3813 and 3812, or Zoology 1114, one course in organic chemistry. Introduction to the characteristics and biological functions of nucleic acids and proteins in living cells with emphasis on nucleic acid replication, transcription, translation and regulation; also emphasis on the molecular aspects of microbial genetics-transformation, transduction and conjugation; and emphasis on molecular immunology and genetic engineering/recombinant DNA technology. No student may earn credit for both 5822 and 5843. (Sp)

G5910 Problems in Natural Science (Crosslisted with Geology, Microbiology, Physics, Zoology 5910). 1 to 2 hours. Prerequisite: admission to candidacy for the degree of Master of Natural Science. (F, Sp, Su)

G5971 Seminar in Botany. Required of all graduate students in botany. May be repeated; maximum credit two hours for the master's degree, six hours for the doctor's degree. Selected topics in botany. Each student is called upon for discussion or formal presentations. No laboratory. (F, Sp)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, six hours. Preparation of an original research paper in one of the fields of botany. (F, Sp, Su)

G5990 Special Studies in Botany. 1 to 3 hours. Prerequisite: 15 hours of botany, permission. May be repeated; maximum credit six hours. The student selects an area in which the student desires to read intensively, then selects a staff member who is an authority in that field and together they plan a program for investigation of the literature. (F, Sp, Su)

G6003 Ecological Modeling (Crosslisted with Microbiology, Zoology 6003). Prerequisite: one computer course, one course in ecology, or permission of instructor. Trains students to use modeling tools in their research and to gain greater ability to understand, appreciate, and criticize modeling work. Students will learn general procedure and principles with case studies of successful models in ecology and participate in course projects to gain hands-on experience in model development. (Irreg.)

G6484 Physiological Plant Ecology. Prerequisite: 3451, 3453, 4115. Study of energy budgets, plant water relations, carbon uptake and release, nutrient uptake and availability, and other factors as they affect plant growth, competition and other ecosystem-level factors. In-depth analysis of current literature. (Sp)

G6980 Research for Doctor's Dissertation. 2 to 16 hours. Preparation of a research paper consisting of a notable contribution to knowledge in one of the fields of botany. (F, Sp, Su)
Course Descriptions

Business Administration (B AD)

2110 Topics in Business for Non-Majors. 1 to 3 hours. May be repeated with change of content; maximum credit six hours. Course is designed to familiarize and present business related topics to majors in other disciplines of study. Topics will vary and may encompass all divisions within the Price College of Business. (Irreg.)

3013 Integrated Business Core Practicum. Prerequisite: junior standing; Corequisite: enrollment in Integrated Business Core (L S 3323, MGT 3013, MKT 3017). Students will apply concepts from the corequisite courses to their own start-up business ventures and to community service projects. (F, Sp)

3023 International Financial Statement Analysis (Crosslisted with Accounting 3023). Prerequisite: Accounting 2113 and 2123. A review of international financial reporting development, procedures and standards with an emphasis on financial statement interpretation and analysis. Open to accounting majors only as an elective. (Sp)

3503 Real Estate Principles. Prerequisite: junior standing. Introduces the student to the broad field of real estate. Topics covered include real estate valuation, investment analysis, ownership forms, conveyancing, productivity analysis, development, marketing, financing and governmental regulation. (F, Sp)

3513 International Business. Prerequisite: junior standing. The nature and economic role of the multinational corporation including the impact of legal, political, educational, sociological, and cultural variables upon firm performance and managerial activity; case studies illustrate managerial, marketing, financial and accounting activities projected across national boundaries. (F, Sp)

3603 Insurance. Prerequisite: junior standing. Introduces the student to the broad field of insurance and provides a general understanding of the varied applications of the principles of insurance to situations of risk. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to study materials not usually presented in regular courses. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program; junior standing. May be repeated; maximum credit six hours. Independent research on special projects. (F, Sp)

4013 Business Strategy and Policy. Prerequisite: senior standing and completion of all other College of Business Administration core courses. Administrative decision making with an emphasis on analyzing business problems, formulating policies and implementing plans for action; comprehensive cases provide the opportunity to study the proper interrelationships among production, finance, marketing and the many other functions involved in managing a business enterprise. Should be taken in student’s final semester. (F, Sp, Su) [V]

4091 Career Planning and Placement for Business Students. Prerequisite: junior or senior standing. An overview of the career planning process for business students including self-assessment of individual qualifications, interests and goals; development of personal skills in resume development, letter writing, and the interviewing process; exploration of a variety of business careers. Should be taken prior to job search and interviewing. (F, Sp)

4253 Small Business Strategy. Prerequisite: senior standing or permission. The identification, definition and analysis of problems and strategies of small firms compared and contrasted with those of large firms. (F, Sp)

4353 Entrepreneurship. Prerequisite: senior standing or permission. Primarily for those interested in developing or acquiring a major management or equity position in a business venture. The application of management skills in the areas of finance, marketing, and management to the area of small business. (F, Sp, Su)

4503 Real Estate Appraising. Prerequisite: 3503 or permission. Appraisal processes and techniques used in the valuation of real property of all types. Appraisal value concepts; analysis of city, neighborhood and site data; determination of physical deterioration, functional and economic obsolescence; the capitalization rates and processes; the correlation of value estimate; the appraisal report; ethics of appraising. (Sp)

4700 Internship in Business or Economics. 1 to 3 hours. Prerequisite: nine hours of required core courses and permission of Director, Leadership Program. Application of the theory and principles of business and/or economics to actual businesses or other organizations in which the student receives on-the-job experience. (F, Sp, Su)

4710 Special Problems in Business Administration. 1 to 3 hours. Prerequisite: junior standing and permission. May be repeated; maximum credit six hours. Permits students to study topics in business administration not included in standard course offerings. Subject of course will vary. (F, Sp, Su)

G5023 Management Science. Prerequisite: permission (Director-CBA Graduate Programs). A quantitative methods course to prepare students for MBA functional courses. Includes elements of statistics and management science. (F, Sp)

G5032 Business Integration. Prerequisite: graduate standing and permission of instructor. Integrates the concepts of the functional areas of business and applies them to current issues of concern. (F)

G5033 Statistical Modeling for Decision-Making. Prerequisite: graduate standing or permission of instructor. Covers basic statistical methods used in business decision-making. Topics include probability distributions, confidence intervals, hypothesis testing, regression analysis, correlation, fundamentals of decision theory, and utility theory. (Irreg.)

G5100 MBA Prelude - Part A. 0 hours credit. Prerequisite: admission to MBA program. This course meets immediately prior to the fall semester. An orientation to the University and MBA establishing student teams and team learning concepts, orientation to management by executives, and bringing students to common minimal competence in computers, math and statistics. (F)

G5101 MBA – Professional Development. Prerequisite: admission to MBA program. Stresses professional development skills. Designed to prepare students for their professional careers and the job search process in particular. Topics include: resume writing, job search and interview, negotiation skills, business etiquette, career decisions, and project and career management. (F)

G5112 Microeconomics for MBAs. Prerequisite: admission to MBA program. Microeconomic issues emphasizing applications of economic concepts to management problems. Supply and demand analysis and price determination; economic analysis of costs; competition, monopoly, and oligopoly; game theory; principal-agent issues; information economics; externalties and market failures; and regulation and antitrust. (F)

G5113 Entrepreneurship and Venture Management. Prerequisite: graduate standing. Designed for those interested in starting their own business or in developing new ventures for established companies. Students do everything necessary to set up a new business: establish objectives, develop plans, make market studies, make financial analyses, develop a financial plan and organization structures, write a proposal for financing and developing a business plan. (F, Sp)

G5123 Organizational Behavior and Human Resources Management. Prerequisite: admission to MBA program. Concepts and theories of organizational behavior and human resources management for MBAs. (Sp)

G5133 Accounting for MBAs - Part A. Prerequisite: admission to MBA program. Financial and managerial accounting concepts useful to the MBA. The use of financial and management information systems will be emphasized. (F)

G5143 Quantitative Business Analysis - Part A. Prerequisite: admission to MBA program. Statistics and management science techniques. Applications across all the functional areas of business and have a strong managerial focus will be included. Extensive use of computers will be required. (F)

G5153 Management Information Systems. Prerequisite: admission to MBA program. Concepts, theories and the strategic role of information systems as applied to business organizations will be covered. This course is to be highly integrative/cross-functional in nature. (F)

G5163 Legal and Ethical Environments of Business. Prerequisite: admission to MBA program. Review of the American legal process and ethical frameworks for gauging business decisions. (F)

G5200 MBA Prelude - Part B. 0 hours credit. Prerequisite: 5100, admission to MBA program. This course meets immediately prior to the spring semester and focuses on career planning, job placement, summer international and job experience opportunities, and planning of second year MBA electives. (Sp)

G5212 Macroeconomics for MBAs. Prerequisite: 5112. Macroeconomic issues emphasizing and understanding of the U.S. and world economics and on applications of economic concepts to management problems. Inflation, unemployment, production or GDP productivity, the business cycle, interest rates, exchange rates, the budget deficit, the trade deficit, monetary policy, fiscal policy, and economic forecasting, U.S., Japan, and European economies are analyzed and compared. (F)

G5233 Accounting for MBAs - Part B. Prerequisite: 5132, admission to MBA program. Continuation of the financial and managerial accounting concepts useful to the MBA. The use of financial and management information systems will be emphasized. (Sp)

G5242 Qualitative Business Analysis - Part B. Prerequisite: 5143, admission to MBA program. Continuation of statistics and management science techniques. Contains applications across all the functional areas of business and has a strong managerial focus. Requires extensive computer use. (Sp)

G5262 Production and Operations Management. Prerequisite: admission to MBA program. Production and operations management techniques most
Business Communication (B C)

2813 Business Communication. Prerequisite: English 1113 and 1213 or equivalent, Communication 1113 or 2613 and sophomore standing. This course is writing intensive. Focuses on oral and written communication as well as-computing and programming using prevalent engineering computing software; program design and development; computer application exercises in engineering. (F)

2033 Chemical Engineering Fundamentals. Prerequisite: Chemistry 1415 or 1425 or equivalent. Material balances involving physical equilibria and chemical reaction; energy balances; gas behavior including vapor pressure and Raoult’s Law. (F)

2153 Electrical and Mechanical Engineering Concepts and Applications. Prerequisite: Physics 2524; Mathematics 2433. Review of electrical circuits and statics and dynamics; application to engineering systems, including motors, power systems, electrical safety, and design of flanges, spars, vessels and other mechanical systems. (Sp)

2281 Engineering Co-Op Program (Crosslisted with AEM, C E, C S, ECE, ENGR, EPHY, E S, GE, I E, P E 2281). Prerequisite: student participation in the program. The Co-Op program provides student placement in jobs outside the university, but in a position related to the student’s major. On completion of a semester work period, the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

2313 Structure and Properties of Materials. Prerequisite: Chemistry 1415, Physics 2524. The behavior of materials under various conditions and environments is correlated to atomic and molecular structure and bonding. (Sp)

3113 Momentum, Heat and Mass Transfer I. Prerequisite: 2033; Mathematics 2443 or concurrent enrollment in 2443, and completion or concurrent enrollment in Mathematics 3113. The common mathematical and physical basis of these processes is presented. Calculation methods for all three processes are developed. Design procedures of equipment for fluid flow, heat transfer and diffusion processes are given. (F)

3123 Momentum, Heat and Mass Transfer II. Prerequisite: 3113 and Mathematics 2443, or concurrent enrollment in Mathematics 3113. The common mathematical and physical basis of these processes is presented. Calculation methods for all three processes are developed. Design procedures of equipment for fluid flow, heat transfer and diffusion processes are given. (F)

3333 Separation Processes. Prerequisite: 3123, 3473, Engineering 3723. Coverage of the fundamentals and modeling techniques of various separation processes found in the chemical process industries. Discussion of various computational approaches for binary and multicomponent separations; factors affecting efficiency, capacity and energy requirements. (Sp)

3432 Unit Operations Laboratory. Prerequisite: 3123, 3333 or concurrent enrollment in 3333, 3473; corequisite: English 3153. Experimental examination of processes involving fluid flow, heat and mass transfer, kinetics and process control. Process parameters and physical properties are measured. Laboratory (Sp)

3473 Chemical Engineering Thermodynamics. Prerequisite: 2033, Engineering 2213. Application of the first and second laws of thermodynamics to the analysis of phase change, solution behavior and chemical equilibria and reaction. (F)

3960 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student’s field. Laboratory (F, Sp, Su)

3990 Undergraduate Research Experience. Prerequisite: permission of instructor. May be repeated; maximum credit six hours. Individual research projects for undergraduates in Chemical Engineering before their junior year, and for high performing undergraduates not in the Honors Program. (F, Sp, Su)

G4153 Process Dynamics and Control. Prerequisite: 4473. Formulation of first-order models for storage tanks, chemical reactors and heated, stirred tanks; transient and steady-state process dynamics; three-mode control of unit operations; higher-order systems and counter-current operations; analog simulation and digital control of chemical processes. (Sp)
G4253 Chemical Engineering Design I. Prerequisite: 3123, 3333, 3473. Processes and process equipment design; technical design of units combined into plants. (F)

G4262 Chemical Engineering Design Laboratory. Prerequisite: 3333, 3432, 4473 or concurrent enrollment in 4473, and 4253 or concurrent enrollment in 4253. Experimental techniques for the acquisition of pilot plant data, using unit operations equipment and reaction equipment for use in process design. Laboratory (F)

G4273 Advanced Process Design. Prerequisite: 4253. Process and process equipment design, complete design of process plants including complete flow sheets, estimated plant costs, costs of process development, economics of investment. (Sp) [V]

G4473 Kinetics. Prerequisite: 3473, Engineering 3723, Chemistry 3523, Mathematics 3113. Fundamentals of rates, homogeneous isothermal reactions, non-isothermal reactions, reactors and design, heterogeneous reactions, fixed and fluidized bed reactors, experimental data reduction, non-ideal flow reaction systems. (F)

G4980 Senior Research. 1 to 4 hours. Prerequisite: senior standing, permission. Selected students work with individual faculty members on research problems. Laboratory (F, Sp, Su)

G5163 Catalysis. Prerequisite: 4473. Physical characterization of heterogeneous catalysts; catalytic activity of metals, semiconductors, solid acids, and shape-selective materials. Theories of catalytic activity, catalytic reactors, basics of catalyst surface characterization and activity measurement. (Irreg.)

G5183 Graduate Transport Phenomena. Prerequisite: 3123. Fundamentals of the theory of transport process; heat, mass, momentum transfer combined with chemical reactions, derivation of different equations to describe processes and process units, analytical and numerical solutions of systems of describing equations. (F)

G5193 Characterization of Solid Surfaces. Prerequisite: Chemistry 3523 or equivalent. Physical-chemical characterization of surfaces with emphasis on catalysis and chemical reactivity. Temperature-programmed techniques: spectroscopy, microscopy, XPS, EXAFS, FTIR, field emission. (Irreg.)

G5203 Bioengineering Principles (Crosslisted with Aerospace and Mechanical Engineering 5203). Prerequisite: Engineering 2113 and 2613, and Mathematics 3113. Principles of bioengineering for the areas of the biomechanics of solids and fluids, mass transfer, biomaterials, electrical networks, imaging, and ionizing radiation as they apply to the human body. (Alt. F)

G5243 Biochemical Engineering. Prerequisite: 3123 or permission. A general introduction to the fundamental principles of the life sciences as they are applied to chemical engineering. (F, Sp)

G5273 Biomedical Engineering. Prerequisite: 3123 or permission. Current bioprocesses for reaction and separation with emphasis on fundamental principles of chemical engineering, bioengineering, and microbiology. (Irreg.)

G5293 Transport in Biological Systems (Crosslisted with Aerospace and Mechanical Engineering 5293). Prerequisite: 3123 or permission of instructor. Theoretical and practical aspects of transport phenomena in living organisms and biomedical technologies. Applications include hemorheology, drug delivery, extracorporeal circulation, and artificial organs. (Irreg.)

G5373 Tissue Engineering. Prerequisite: graduate standing or permission of instructor. Examines the background and recent advances in the science of combining multiple cell types with an appropriate support to provide a construct that can replace or support damaged tissue. (Irreg.)

G5443 Complex Fluids Rheology Laboratory. Prerequisite: graduate standing or permission of instructor. A laboratory course designed to teach the student how to measure the rheological properties of non-Newtonian fluids. Steady-shear and oscillatory experiments for both solids and liquids will be described and discussed. Laboratory (Sp)

G5453 Polymer Science (Crosslisted with Chemistry 5453). Prerequisite: graduate standing or permission. Nomenclature, synthesis, structure and properties of high polymers, survey of production, processing and uses of commercial polymeric materials. (F)

G5463 Polymer Processing. Prerequisite: senior or graduate standing. The theory and practice of the production of finished polymer shapes (tubes, sheets, fibers, bottles, etc.) from polymeric raw materials. (Alt. F)

G5480 Seminar in Selected Topics in Chemical Engineering. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. Seminar course in specialized topics in chemical engineering. (Irreg.)

G5523 Advanced Mathematical Methods in Science and Engineering (Crosslisted with Meteorology 5523). Prerequisite: 3113 and Mathematics 2443. Scale and vector field theory, Ordinary and partial differential equations, Matrix algebra, Complex analysis. (F)

G5643 Natural Gas Utilization. Prerequisite: graduate standing or permission of instructor. Covers the uses of natural gas for combustion, power, LNG, gas conversion to chemicals and fuels, and gas transportation. (Alt. F)

G5673 Colloid and Surface Science (Crosslisted with Environmental Science 5673). Prerequisite: graduate standing or permission of instructor. Capillarity, surface thermodynamics, adsorption from vapor and liquid phases, contact angles, micelle formation, solubilization, emulsions and foams. Applications to be discussed include detergency, enhanced oil recovery and adsorption for pollution control. (Irreg.)

G5843 Advanced Chemical Engineering Thermodynamics. Prerequisite: 3473 or permission. Advanced thermodynamics as applied to engineering problems and design. (F)

G5971 Seminar in Chemical Engineering Research. May be repeated; maximum credit four hours for the master’s degree, ten hours for the doctoral degree. Speakers from academia and industry elaborate on methods and results from research in their areas of expertise to provide the student with an appreciation of the problems of current interest in chemical engineering. (F, Sp)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit allowable toward degree, six hours. Laboratory (F, Sp, Su)

G6483 Seminar on Selected Topics in Engineering Sciences. Prerequisite: permission. May be repeated with change of subject matter; maximum credit six hours. (F, Sp, Su)

G6613 Modern Thermodynamics Seminar. Prerequisite: 5183, 5843. (Irreg.)

G6723 Seminar in Theoretical and Applied Kinetics. Prerequisite: 5843. (Sp)

G6980 Research for Doctoral Dissertation. Laboratory (F, Sp, Su)

G6990 Special Chemical Engineering Problems. 1 to 2 hours. Prerequisite: permission. May be repeated; maximum credit four hours. Special research problems are pursued by the students either as individuals or as a group under staff direction. (F, Sp, Su)

Chemistry and Biochemistry (CHEM)

1315 General Chemistry. Prerequisite: Mathematics 1503 or 1643, or math ACT equal to or greater than 23. First of a two-semester sequence in general chemistry. Topics covered: basic measurement, gas laws and changes in state, stoichiometry, atomic theory, electron configuration, periodicity, bonding, molecular structure and thermochemistry. Laboratory (F, Sp, Su) [II-LAB]

1415 General Chemistry (Continued). Prerequisite: 1315 with a minimum grade of C or a satisfactory score on the chemistry placement examination. Topics covered include: nature of solutions, equilibrium, thermodynamics, acid and base properties, kinetics and electrochemistry. Laboratory (F, Sp, Su)

1425 General Chemistry for Majors. Prerequisite: chemistry major, three years of high school math, high school chemistry, permission of instructor. Designed for chemistry majors well prepared in high school chemistry and math. Laboratory (F) [II-LAB]

3012 Organic Chemistry Laboratory. Prerequisite: 3013 or concurrent enrollment. (F, Sp, Su)

3013 Organic Chemistry. Prerequisite: 1415 or 1425. Structure and reaction of both aliphatic and aromatic compounds. Reaction mechanism and modern structural theory. (F)

3053 Organic Chemistry. Prerequisite: 1415 or 1425. Two-semester sequence (3053 and 3153) covering the fundamental concepts of organic structure and reactions of the principal functional groups. Reaction mechanisms. (F, Sp, Su)

3152 Organic Chemistry Laboratory. Prerequisite: 3053. Selected experiments designed to illustrate the fundamental techniques used in organic research, to develop familiarity with the properties of organic compounds and to demonstrate the application of the scientific approach to laboratory work. (F, Sp, Su)

3153 Organic Chemistry. Prerequisite: 3053 with a grade of “C” or better. Two-semester sequence (3053 and 3153) covering the fundamental concepts of organic structure and reactions of the principal functional groups. Reaction mechanisms. (F, Sp, Su)

3214 Quantitative Analysis. Prerequisite: 1415 or 1425, Mathematics 1523 or 1643. Principles of chemical stoichiometry and equilibria applied to gravimetric and volumetric methods of analysis; practice of volumetric and gravimetric analysis; introduction to simple instrumental methods. Laboratory (F, Sp)

G3421 Physical Chemistry Laboratory. Prerequisite: 3423 or concurrent enrollment. Phsycochemical measurements and calculations. (F, Sp, Su)

G4242 Physical Chemistry I. Prerequisite: 1415 or 1425; Mathematics 2423; Physics 2524 or 2424. States of matter, chemical thermodynamics, equilibria, etc. (F, Sp, Su)
Courses and Descriptions

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4923 Senior Project. Prerequisite: permission of instructor and permission of department. Capstone Course. Topics of current interest and importance in chemistry or biochemistry, requiring indepth reading or individual laboratory work, extensive literature search, and report writing. Laboratory (F, Sp) [V]

4933 Current Topics in Biochemistry. Prerequisite: 3653, 3652, and one semester of physical chemistry with lab. Capstone course for biochemistry majors. Topics of current interest in biochemistry. Students will attend lectures and will be involved in literature search, group discussion, oral presentation, laboratory work, and report writing. Laboratory (Sp) [V]

4990 Independent Study. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

GS103 Physical and Chemical Separations. Prerequisite: 4023 or permission. Analytical separations; unifying concepts of “separation sciences”—mathematical treatments; equilibrium and kinetics in liquid-liquid partition; fractionation, practical column chromatography and TLC; gas chromatography; ion exchange. (Irreg.)

GS113 Equilibrium and Kinetic Methods of Analysis. Prerequisite: 4023 or permission. General concepts of equilibrium based on methods of detection, determination, and separation; equilibrium in aqueous and nonaqueous media; graphical presentation of equilibrium data; conditional equilibrium constants and alpha coefficients; analytical implications; generalities of kinetic methods of analysis. Reaction rates in chemical analysis. (once every 4 semesters)

GS123 Intermediate Physical Chemistry. Prerequisite: 3623 or concurrent enrollment, or equivalent. Chemical thermodynamics, statistical thermodynamics, chemical kinetics, applications of quantum chemistry, structure of matter. This is a core course for graduate majors. (Sp)

GS153 Molecular Symmetry. Development of the concept of symmetry elements will be followed by the development of point group theory and applications to molecular systems. (F)

GS201 Seminar in Chemical Education. Prerequisite: twenty hours of chemistry; teaching experience (corequisite). Explores the pedagogical issues associated with teaching chemistry at the undergraduate level. Includes: administration of instruction, student and teacher behavior, goals of instruction, instructional strategies, student thinking processes, problem solving and grading.

GS223 Advanced Inorganic Chemistry—Reactions and Mechanisms. Prerequisite: 3523, 4333, or permission. Core course for graduate majors. The descriptive and mechanistic chemistry of inorganic systems.

GS323 Advanced Organic Chemistry. Prerequisite: 3153, 3253. Introduction to organic reaction mechanisms. Core course for graduate majors. (F)

GS333 Advanced Inorganic Chemistry—Bonding and Structure. Prerequisite: 3523 and 4333, or permission. Experimental methods and concepts for understanding inorganic bonding and structure. Core course for graduate majors. (Sp)

GS433 Reaction Chemistry of the Main-Group Elements. Prerequisite: graduate standing or permission of instructor. Presents the reaction chemistry of the main-group elements. Uses periodic trends, thermodynamics, statistical thermodynamics, kinetic guidelines to link the material and memorization of reactions. Also includes organometallic chemistry of metallic members of each family and the role of transition metals as catalysts for reactions within the main-group elements.

GS453 Polymer Science (Crosslisted with Chemical Engineering 5453). Prerequisite: graduate standing or permission. Nomenclature, synthesis and properties of high polymers, survey of production, processing and uses of commercial polymeric materials. (F)

GS623 Physical Chemistry III. Prerequisite: 3523 or permission of the department. Review of classical mechanics; introduction to wave mechanics and applications to atoms and molecules. (F)

GS673 Colloid and Surface Science (Crosslisted with Chemical Engineering and Environmental Science 5673). Prerequisite: graduate standing or permission of instructor. Capillarity, surface thermodynamics, adsorption from vapor and liquid phases, contact angles, micelle formation, solubilization, emulsions and foams. Applications to be discussed include detergency, enhanced oil recovery and adsorption for pollution control. (Irreg.)

GS753 Principles of Biochemistry I. Prerequisite: 3153, 3423 or 3453, 3653 or equivalent and permission or satisfactory score on placement examination or graduate standing. First semester of a two-semester sequence covering the fundamental principles of protein structure and function, enzymology, carbohydrate and lipid metabolism, biochemical energetics, membranes, nucleic acid and protein metabolism, information transfer and the genetic code, and the interdependence of biochemical pathways. (F)
G6583 Principles of Biochemistry II. Prerequisite: 5753 or equivalent and permission. Second semester of a two-semester sequence covering the fundamental principles of protein structure and function, enzymology, carbohydrate and lipid metabolism, biochemical energetics, membranes, nucleic acid and protein metabolism, information transfer and the genetic code, and the interdependence of biochemical pathways. (Sp)

G5960 Directed Readings in Chemistry. 1 to 2 hours. Prerequisite: permission. May be repeated with change of content; maximum credit six hours. Selected from topics of current interest in any of the areas of chemistry. (F, Sp, Su)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, six hours. (F, Sp, Su)

G5990 Independent Studies. 1 to 3 hours. May be repeated with change of subject matter; maximum credit nine hours. Staff members in the student's field of interest supervise research and/or library studies which closes gaps in student's training or builds on this training in specialized areas. (F, Sp, Su)

G6010 Electroanalytical Chemistry. Prerequisite: 4023 or permission. Electrode materials; current-potential relationships; diffusion and other mass transport phenomena; dropping mercury electrode; solid electrodes in quiet solutions; rotated disk electrode; cyclic voltammetry; chronocoulometry; chronopotentiometry; electrode mechanisms; electrochemistry in chemical kinetics. (Once every 4 semesters)

G6113 Spectroscopic Methods of Analysis. Prerequisite: 4023 or permission. UV-VIS, IR, fluorescence, X-ray and electron spectroscopy; atomic emission and absorption. (Irreg.)

G6210 Seminar in Analytical Chemistry. 1 to 2 hours. Prerequisite: 5103 or permission. May be repeated with change of content; maximum credit 12 hours. Research seminar on the theory and practice of advanced analytical chemistry as related to topics of current or projected research areas. (F, Sp)

G6411 Seminar in Organic Chemistry. Prerequisite: 5323 or enrollment in 5323. May be repeated; maximum credit 12 hours. Seminar in synthetic methods and reaction mechanisms using examples from current literature. (F, Sp)

G6431 Colloquium in Organic Chemistry. Prerequisite: enrollment as graduate student in chemistry, or permission. May be repeated; maximum credit 12 hours. Oral presentation of recent developments in organic chemistry. Required of graduate students majoring in organic chemistry during each semester of residence. (F, Sp)

G6443 Advanced Organic Chemistry. Prerequisite: 3153, 3523. Continuation of 5323. Lectures in synthetic methods of organic chemistry. (SP)

G6453 Chemical Kinetics. Empirical treatment of reaction rate data, collision and transition-state theories of homogeneous and heterogeneous reactions, mechanisms of chemical reactions. (Irreg.)

G6553 Molecular Spectroscopy. Prerequisite: 5623. Considerations of vibrational spectra will include: potential energy, harmonic oscillators; band intensities; Raman effect; normal coordinates; force constants; symmetry; condensed phases; applications. (Irreg.)

G6650 Special Topics in Physical Organic Chemistry. 1 to 3 hours. Prerequisite: 5323, 6443 or concurrent enrollment in 6443. May be repeated with change of subject matter; maximum credit nine hours. Selected from topics in physical organic chemistry—emphasis on the mechanisms of organic reactions through study of kinetics, stereochemistry, isotopic effects, and products of reactions; simple molecular orbital calculations; free energy correlations; physical methods; newer techniques of synthesis. (F)

G6670 Selected Topics in Physical Chemistry. 1 to 3 hours. Prerequisite: 3523 and/or permission of instructor. May be repeated with change of subject matter; maximum credit 12 hours. Studies in special areas of physical chemistry not covered in the regular course curriculum. (As needed)

G6680 Special Topics in Synthetic and Structural Organic Chemistry. 1 to 3 hours. Prerequisite: 5323, 6443 or concurrent enrollment in 6443. May be repeated with change of subject matter; maximum credit nine hours. Selected topics include aliphatic and alicyclic hydrocarbons, terpenes, steroids, alkaloids and other hetrocyclics, aromatic compounds and polymers. Emphasis will be placed on synthesis and the application of modern spectrometric methods to problems of structure determination. (Irreg.)

G6721 Seminar—Biochemistry. Prerequisite: 12 hours of chemistry including five hours of biochemistry, permission. May be repeated; maximum credit 12 hours. Participation required of all majors in biochemistry. Discussion of recent advances in biochemistry. (F, Sp)

G6730 Special Topics in Advanced Analytical Chemistry. 1 to 3 hours. Prerequisite: 4023 or permission. May be repeated with change of content; maximum credit 12 hours. A consideration of specialized topics in analytical chemistry related to current research or advances. (Sp)

G6813 Introduction to Biochemical Methods. Prerequisite: 3453 and permission; 5753 or equivalent is recommended. Basic principles and practical applications of the analytical and preparative techniques used in current biochemical research. Students will have the opportunity to apply these principles in an independent laboratory project. (F)

G6823 Proteins, Nucleic Acids and Gene Expression. Prerequisite: 5753, 6813, and permission. The structure and function of proteins and nucleic acids. The organization and expression of genetic information. (Irreg.)

G6833 Structure and Function of Membranes and Hormones. Prerequisite: 5753, 6813 and permission. The biosynthesis, structure and function of membranes and hormones. The involvement of membranes in transport, energy transduction and cellular communication processes. The mechanisms of hormone action. (Alt. Sp)

G6843 Enzyme Mechanisms and Metabolic Regulation. Prerequisite: 5753, 6813, and permission. General principles of enzyme function and metabolic regulation. Molecular basis of enzyme mechanisms and metabolic control. (Alt. Sp)

G6850 Seminar in Inorganic Chemistry. 1 to 2 hours. Prerequisite: permission. May be repeated; maximum credit 12 hours. Research seminar with a selection of topics from current or projected research at the University of Oklahoma. (F, Sp)

G6853 Protein Structure and Function. Prerequisite: 5753, 5853. The levels of protein structure organization, general principles of macromolecular X-ray crystallography, and protein structure-function relationships. (Irreg.)

G6861 Advanced Inorganic Chemistry—Properties of Inorganic Systems. Prerequisite: 5333 or permission. May be repeated with change of subject matter; maximum credit 12 hours. Selected topics in theoretical, structural and synthetic chemistry as applied to inorganic chemistry. (F, Sp)

G6970 Departmental Colloquium. No credit. Prerequisite: enrollment as graduate student in chemistry, or permission. Enrollment expected during each semester of graduate study. Oral presentation of reports on recent developments in chemistry by faculty, invited speakers and advanced graduate students. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)

Chinese (CHIN)

1115 Beginning Chinese. An elementary course in understanding, speaking, reading and writing Mandarin Chinese. (F) [I-FL]

1225 Beginning Chinese (Continued). Prerequisite: 1115. Continued training in understanding, speaking, reading and writing elementary Mandarin Chinese. (Sp) [I-FL]

2113 Intermediate Chinese. Prerequisite: 1225. Combination of basic Chinese grammar and vocabulary and their application to spoken and written Mandarin Chinese. (F)

2223 Intermediate Chinese. (Continued) Prerequisite: 2113. Continued training in the use of grammar and vocabulary in both spoken and written Mandarin Chinese. (Sp)

3113 Advanced Chinese I. Prerequisite: 2223 or equivalent. An integrated advanced course designed to improve skills in the four aspects of learning Mandarin Chinese as a foreign language: listening, speaking, reading, and writing. Emphasis on the phonetics of standard Mandarin Chinese and conversational topics in daily life. (F)

3223 Advanced Chinese II. Prerequisite: 3113 or equivalent. Continue to improve skills in the four aspects of learning Mandarin Chinese as a foreign language: listening, speaking, reading, and writing. Emphasis on composition and advanced-level reading comprehension. (Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: 2223. May be repeated; maximum credit 12 hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

ChocTaw (CHOC)

1713 Beginning Choctaw. Introduction to the structure of the Choctaw language with special attention to its phonology, morphology, and syntax. Conversational practice, vocabulary-building, and the history and culture of the native speech community also are emphasized. (F, Sp, Su) [I-FL]

1723 Beginning Choctaw Continued. Prerequisite: 1713. A continuation of the study of the structure of the Choctaw language with special attention to its phonology, morphology, and syntax. Conversational practice, vocabulary-building, and the history and culture of the native speech community are emphasized. (Sp) [I-FL]

2733 Intermediate Choctaw. Prerequisite: 1723. A systematic review of the structure of the Choctaw language. Syntactic control and vocabulary expansion are emphasized. Conversational practice and traditional oral texts are used to develop proficiency. (F)
Civil Engineering (CE)

1000 CEES Seminar. Seminar provides a common meeting time for students and faculty for department activities, such as invited speakers, project presentations, educational surveys, cross-course project coordination, and policy announcements. Students must enroll every semester that they are matriculated and register for CEES 1000 after the freshman year, but in no case can a student graduate without successfully completing four semesters of seminar. (F, Sp)

1111 Introduction to Civil Engineering and Environmental Science. Prerequisite: Mathematics 1523. Introduction to fundamental concepts (principles of mechanics, energy balances, simple circuits), problem solving and computing software for civil engineers, environmental engineers and environmental scientists. (F)

1213 Computing Applications in Civil Engineering and Environmental Science. Prerequisite: Mathematics 2423, Physics 2514. Introduction to a computer-aided engineering and environmental science. Introduction to application software and tools relevant to civil engineering and environmental science such as AUTOCAD, JAVA and spreadsheets. (F)

2113 Statics and Dynamics (Crosslisted with AME 2113). Prerequisite: Physics 2514 and Mathematics 2433 or concurrent enrollment in Mathematics 2433. Vector representations of forces and moments; general three-dimensional theorems of statics and dynamics; centroid and moments of area and inertia. Free-body diagrams, equilibrium of a particle and of rigid bodies, principles of work and energy; principle of impulse-momentum. Motion of particles and rigid bodies in translating and rotating reference frames, Newton’s law of motion and Lagrange’s equation, including application to lumped-parameter systems. Analyses of trusses, frames and machines. (F, Sp)

2153 Mechanics of Materials. Prerequisites: 2113. Basic principles of mechanics, including the definition of stress and strain, transformations and principal values for the stress and strain tensors, kinematic relations, review of conservation equations and the development and application of constitutive laws for idealized materials. Elementary elastostatics utilizing Hooke’s law; constitutive relations for a linear-elastic continuum, including elastic parameters such as Young’s modulus, shear and bulk moduli and Poisson’s ratio. Solution of elementary one- and two-dimensional mechanics problems, including thermal stresses and strains, beam flexure, shear and deflections, pressure vessels and buckling of columns. (F, Sp)

2223 Fluid Mechanics. Prerequisites: 2113, Environmental Science 2313, Mathematics 2433 and concurrent enrollment in Mathematics 3113. Coverage of the fundamentals of fluid statics and dynamics. Formulation of the equation of fluid flow, i.e., Navier-Stokes equations, Eulers equations, Bernoulli equations, etc. and their application. Examples of ideal fluid flow and viscous fluid flow, such as flow in open and closed conduits. (F, Sp)

2281 Engineering Co-Op Program (Crosslisted with AME, CH E C, S, ECE, ENGR, EPHY, E S, EG E, IE, P, E 2281). Prerequisite: student participation in the program. The program provides students placement in jobs outside the University, but in a position related to the student’s major. On completion of a semester work period, the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

2553 Engineering Surveying. Prerequisite: Mathematics 2423, Engineering 1112 and 1213 or concurrent enrollment. Theory and practice in errors, leveling, tapering, angle measurement, stadia, mapping, traversing, areas, volumes, construction surveys, horizontal and vertical curves and land surveying. Laboratory. (F)

3213 Water Resources Engineering. Prerequisite: 2223. Municipal water demands, surface water hydrology, ground water hydrology, water distribution systems, pump design, wastewater collection systems, storm water management, water law. (F)

3243 Water and Wastewater Treatment Design. Prerequisite: 2223 and 3123. Environmental Science 2313. Design of municipal water and wastewater treatment plants. Emphasis is placed on the characterization of water and wastewater and physical, chemical and biological treatment methods. Sludge processing advanced treatment methods and treatment plant hydraulic are also considered. (Sp)

3253 Introduction to Continuum Mechanics. Prerequisite: 2113 and 2153, Physics 2524 and Mathematics 3113. Mechanics of a deformable continuum, including applications of plane stress, plane strain and an introduction to three-dimensional elastostatics. Thermodynamics of deformable media, including energy formulations suitable for closed-form applications and for computational applications. Constitutive relations for engineerable materials, including nonlinear stress-strain relations and multiphysics problems with coupling of the behavior of solids and fluids within the framework of poromechanics. Considerations for structural mechanics, micromechanics and nanomechanics. (F)

3334 Measurements in CEES. Prerequisites: Mathematics 2423, Physics 2524, Chemistry 1415 and Environmental Science 2313. Introduction to measurement (laboratory and field) techniques, data analysis and interpretation and applications to civil and environmental engineering and environmental science problems. Topics include statistics, land surveying, remote sensing, GIS, environmental sampling and analysis. Laboratory. (Sp)

3364 Soil Mechanics. Prerequisite: 2223, 3403. General treatment of the physical and mechanical properties of soils. Theories of effective stress, consolidation, lateral earth pressure, bearing capacity, slope stability and groundwater flow. Laboratory (Sp)

3403 Materials. Prerequisite: Chemistry 1415, corequisite of 2153. Study of the properties of materials utilized by civil engineers; analyses of aggregates, concrete, masonry, steel, asphalt, plastics and wood. Laboratory (Sp)

3414 Structural Analysis I. Prerequisite: Engineering 1213, 2153. Loads, reactions and force systems; introduction to design codes; analysis of frames and trusses; calculation of structural deformations; and analysis of indeterminate structures. Emphasis on classical statics and stress-based approaches to structural engineering. Introduction to structural analysis computer programs to solve complex problems. (F)

3663 Structural Design—Steel I. Prerequisite: 3403, 3414. Design of steel structural members including tension elements, columns, beams and beam-columns; bolted and welded connection design; composite beam design; introduction to plastic design. Laboratory (F)

3673 Structural Design—Concrete I. Prerequisite: 3403, 3414. Analysis and design of reinforced concrete beams, columns, slabs, footings, etc., along with discussion of current building practice. Laboratory (Sp)

3884 Transportation Engineering. Prerequisite: 2553, 3636. Introduction to transportation planning, design, construction, operations and maintenance, emphasizing the highway/street mode. Includes demand modeling, route location and design, pavements including hot mix asphalt volumetrics and stability, drainage, and traffic control devices. Laboratory (Sp)

3960 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects could vary. Deals with concepts not usually presented in regular coursework. (F, Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the field. (Sp)

G4050 Design Projects in Civil and Environmental Engineering. Prerequisite: permission of instructor. May be repeated; maximum credit eight hours. Students are required to demonstrate the ability to apply background knowledge in engineering science, design and project management by executing a real-world project defined by an industrial client or professional society. Subject matter based on completion of identified semester goal. Projects may include lecture, discussion, laboratory and/or field experiences. (F, Sp)

4114 Aquatic Chemistry (Crosslisted with Environmental Science 4114 and 5114). Prerequisite: Senior standing and one year of general chemical. Environmental kinetics and thermodynamics in aquatic systems; acid/base, precipitation/solubility, metal complexation and oxidation/reduction reactions; environmental colloidal and solid-liquid interface chemistry. No student may earn credit for both 4114 and 5114 or Environmental Science 4114 and 5114. Laboratory. (F, Sp)

4123 Open Channel Flow. Prerequisite: Engineering 3223. Theory, analysis and design of channels, aqueducts, headworks, siphons, spillways and hydraulic structures. An in-depth study of critical flow and measurement techniques. Backwater analysis by analytical, calculator and computer methods. Special emphasis on practical problems of general interest. (F)

G4234 Applied Environmental Microbiology (Slashed with 5234). Prerequisite: 3234, Engineering 2213 and 3223. Basic environmental microbiology and bioenvironmental engineering. Presentation of the diversity and importance of organisms involved in solid and liquid waste reduction. The course examines basic microbiology, biodegradation mechanisms, bioavailability, biotreatability-studies, groundwater remediation (bothoxic and anoxic), and bioengineering process technologies. No student may earn credit for both 4234 and 5234. Laboratory. (F)

G4263 Hazardous and Solid Waste Management (Crosslisted with Environmental Science 4263). Prerequisite: 3212. Sources and types of solid wastes; identification and classification of hazardous wastes; waste handling, transportation, treatment and disposal techniques, federal and state legislation; and environmental and health effects. (F)
G4362 Experimental Stress Analysis (Crosslisted with Aerospace and Mechanical Engineering 4362). Prerequisite: Engineering 2153, AME 3113 or equivalent or graduate standing. Determination of stress by means of bonded wire, metal film and semiconductor strain gages, brittle coating and photoelasticity. Design, selection and use of gages for measuring static, dynamic and combined strains. (F, Su)

G4663 Introduction to Matrix Methods in Structural Analysis. Prerequisite: 3414. Review of matrix algebra and solution of linear equations; energy concepts and principle of virtual work; fundamentals of flexibility and stiffness methods; coordinate transformation and matrix assemblage; computer-oriented direct stiffness method and computer code developments; secondary effects; support settlement and temperature change; method of finite differences and application to beam and plate problems. Laboratory (F)

4803 Civil Engineering Professional Practice. Prerequisites: 3213, 3253, 3364 and 3414. Nature of profession, duties and administrative responsibilities, organization and management of operating divisions with emphasis on role of civil engineering professional. Functional approach to planning and implementing public works needs with emphasis on role of civil engineering professional. (F)

4903 Civil Engineering Design. Prerequisite: 4803, senior standing in Civil Engineering curriculum. Solution of major design problems by a team approach requiring the synthesis of several disciplines and adaptation as a civil engineering system; problems to be varied within the several areas of civil engineering according to the student’s major interest. The design project will be under direct staff supervision. (Sp)

G5010 Civil Engineering Problems. Prerequisite: senior or graduate standing and permission of instructor. May be repeated; maximum credit four hours for a master’s program or six hours for a doctoral program, including hours taken as part of another graduate program. Independent or small group study under the supervision of one or more faculty members. (F, Sp, Su)

G5020 Special Topics in Civil Engineering. 1 to 6 hours. Prerequisite: senior or graduate standing and permission of instructor. May be repeated with change of topic; maximum credit 12 hours. Examine subject matter in civil engineering not covered by existing course offerings as a regular course. (If, Sp, Su)

G5021 Technical Communications (Crosslisted with Environmental Science 5021). Prerequisite: CEES graduate standing or permission of instructor. Focused on enabling students to improve oral and written communications skills. Examines appropriate formats for various technical publications, as well as methods and practices for developing effective oral presentations. Each student will be required to develop an oral presentation about his/her written product. (F)

G5032 Radioisotope Techniques (Crosslisted with Botany, Environmental Science, Microbiology 5032). Prerequisite: graduate standing or equivalent, permission; Corequisite 5041. Fundamentals of detection and measurement of ionizing radiation with emphasis on radiotracer experimental design and applications; radiation effects and protection. (Sp)

G5041 Radioisotope Techniques Laboratory (Crosslisted with Botany, Environmental Science, Microbiology 5041). Corequisite: 5032. Laboratory techniques required for the utilization of radioisotopes in experimental work. Laboratory (Sp)

G5114 Aquatic Chemistry (Crosslisted with Environmental Science 5114; slashlisted with 4114). Prerequisite: graduate standing, one year general chemistry. Environmental kinetics and thermodynamics in aquatic systems; acid/base, precipitation/solubility, metal complexation and oxidation/reduction reactions; environmental colloidal and solid-liquid interface chemistry. No student may earn credit for both 4114 and 5114 or Environmental Science 4114 and 5114. Laboratory (F)

G5234 Applied Environmental Microbiology (slashlisted with 4234). Prerequisite: 3234. Engineering 2213 and 3223. Basic environmental microbiology and bioenvironmental engineering. Presentation of the diversity and importance of organisms involved in solid and liquid waste reduction. The course examines basic microbiology, biodegradation mechanisms, bioavailability, bioremediation studies, groundwater remediation (both oxic and anoxic), and bioengineering process technologies. No student may earn credit for both 4234 and 5234. Laboratory (F)

G5244 Water and Waste Treatment. Corequisite: 5114. Analysis and design of physical and chemical treatment operations and processes used for environmental quality control. Solids and liquids separation, heat transfer, gas transfer, sludge treatment, advanced water and wastewater processes and operations. (F)

G5260 Asphalt Materials and Mix Design. Prerequisite: 3403 and 3884. May be repeated once with change of content. Asphalt cement, cutbacks, emulsions, testing procedures and grading; aggregate properties; blending: asphalt concrete mix design (Marshall, Hveen and Superpave); HMA construction; HMA pavement performances; special asphalt mixes; recent developments. Laboratory (Sp)

G5333 Foundation Engineering. Prerequisite: 3363, 3673. Advanced substructure analysis and design to meet various soil conditions; footings and rafts, shoring and underpinning, piles, cofferdams, caissons, breakwaters, piers, wharves, vibratory effects on foundations. (Sp)

G5343 Advanced Soil Mechanics. Prerequisite: 3363, Mathematics 3113. Advanced treatment of theories and principles of shearing strength, stress distribution and settlement analysis. (F)

G5353 Introduction to Soil Dynamics. Prerequisite: 3363 or permission of instructor. Review of basic concepts (single- and multi-degree of freedom system, wave propagation, behavior of dynamically loaded soils), liquefaction, vibrations of footings on elastic half space, analog models, dynamics of pile foundations, machine designs, foundation of dynamic loads including earthquake loading. (Irreg.)

G5373 Transportation Systems Analysis (Crosslisted with Regional and City Planning 5373). Prerequisite: graduate standing or permission. Financial and economic aspects of transportation planning, with emphasis on highway and public mass transportation systems, Federal, state and local financing and administration; practical analysis techniques; and related issues such as government policy and transit productivity. (F)

G5404 Soil Stabilization. Prerequisite: 3403, 3363. Principles and methods of soil stabilization; soil-aggregate, soil-chemical stabilization; grouting; design and laboratory testing of stabilized soils. Laboratory (Irreg.)

G5413 Soil-Structure Interaction. Prerequisite: 3363 or permission of instructor. Introduction-definition, methods of solution; beams on deformable foundations; analysis and design of axially loaded structures—single pile, pile groups, retaining walls; plates on deformable foundations; role of interfaces and joints; wave equation for pile behavior. (Irreg.)

G5423 Environmental Geotechnology. Prerequisite: 3234 and 3363, or permission of instructor. Covers geotechnical issues in environmental problems and solutions. Site characterization; laboratory and in-situ testing for environmental applications; soil mineralogy and fabric; design and construction of contaminant barriers and landfill liners. (Sp)

G5433 In-Situ Soil Testing. Prerequisite: 3363. This is a “hands-on” course that focuses on conducting and interpreting laboratory and in-situ tests for geotechnical engineering. Topics can include but are not limited to drilling, sampling, soil characterization, triaxial shear testing, one-dimensional compression, flexible wall permeability testing, pressuremeter, cone penetrometer, borehole shear, and pile load testing. Laboratory (Sp)

G5453 Public Mass Transportation Systems (Crosslisted with Regional and City Planning 5453). Prerequisite: 3884 or permission of instructor. Service characteristics of the principal modes of public mass transportation with emphasis on urban transit (fixed-route bus, light rail, subways, commuter rail, paratransit, taxi); legislation and regulations; institutional structures; financing; need and demand studies; planning strategies; management; operations and record keeping; case studies of leading systems. (Irreg.)

G5483 Urban and Regional Transportation Planning (Crosslisted with Regional and City Planning 5483). Prerequisite: graduate standing or permission. Characteristics of urban and regional passenger and freight demand; travel demand forecasting methodologies; long- and short-range planning strategies; role of governments; characteristics of major modes of transport; decision-making strategies; case studies. (Sp)

G5493 Transportation and Land Development (Crosslisted with Regional and City Planning 5493). Prerequisite: graduate standing or permission. Study of interactions between land development activity and the transportation network. Application of planning and design techniques to manage the impacts of development upon the transportation system. (F)

G5600 Environmental Quality Management Field Training. 1 to 4 hours. Prerequisite: graduate standing or permission of instructor. A practical problem in environmental quality control is chosen and the class participates in its solution. Laboratory (Su)

G5624 Biological Waste Treatment. Treatment of waste using biological processes; emphasis on treatment kinetics, municipal wastewater treatment processes, and design of municipal wastewater unit processes; application of biological treatment concepts to other wastes including industrial wastes, groundwater, and solid or hazardous wastes. Laboratory (F)

G5633 Urban Environmental Systems (Crosslisted with Regional and City Planning 5633). Prerequisite: Senior standing in Civil Engineering or Environmental Science or permission; for professional elective, graduate standing. Designed to bring together all of the physical elements of the urban systems treated separately in civil engineering and environmental science such as water, sewage, watersheds, etc., into an organized system. The model and parameter of the elements are first described and then followed by the whole
G5873 Water Quality Management. Prerequisite: 3252, 4673. Free vibration, forced vibration and transient response of structures having one, multiple or infinite number of degrees-of-freedom; structural damping effects; numerical solution techniques; Lagrange’s equation of motion; Rayleigh-Ritz method. General matrix formulation for multiple degrees-of-freedom, modal coordinate transformation. Introduction to earthquake engineering concepts. (Irreg.)

G5693 Structural Design of Pavements. Prerequisite: 3363, 3884. Effect of load and climate on the design of rigid and flexible pavements and interaction of pavement components. (Irreg.)

G5733 Design of Concrete Mixtures and Materials. Prerequisite: 3673. Examine material properties of plain concrete in the fresh and hardened states. The following topics will be covered: chemistry of cement and pozzolans; properties of constituent materials; proportioning of concrete mixtures; the proper use and effects of chemical and mineral admixtures; measurement of concrete properties; and construction practices and handling of fresh concrete. Laboratory (Irreg.)

G5753 Structural Design—Wood. Prerequisite: 3663 or 3673 or equivalent. Material properties and behavior of wood. Analysis and design of solid and laminated structural members, connections, systems, trusses and arches. Current developments in structural wood design and research. (Sp)

G5763 Introduction to Finite Element Method (Crosslisted with Aerospace and Mechanical Engineering 5763). Prerequisite: 5663. Weighted residual and variational approaches. Finite element formulation for rod, truss and beam elements; plane stress and plane strain problem; axis-symmetric and three-dimensional analysis; isoparametric elements; conforming and nonconforming plate and shell elements. Laboratory (Sp)

G5773 Structural Design—Steel II. Prerequisite: 3663. Advanced structural steel design including steel deck diaphragms, column and beam bracing, composite beam design, rigid frame design, torsional member design, plate girder design, and design of building connections. (Sp)

G5783 Structural Design—Concrete II. Prerequisite: 4673. Advanced reinforced concrete behavior design and including limit design, anchorage spread columns, truss models for shear and torsion on beams, two-way and flat slabs, and the art of detailing. (Sp)

G5793 Design of Prestressed Concrete Structures. Prerequisite: 3673. Design procedures for pretensioned and post-tensioned concrete structures, with emphasis on the behavior of pretensioned concrete. Topics include methods of analysis, time dependent effects, fabrication and construction procedures, connections, highway bridges, frames, composite construction, continuous structures, and anchorage zone detailing. (Irreg.)

G5823 GIS Applications in Environmental Modeling. Prerequisite: Math 3113 or equivalent. Consideration of the many spatially distributed parameters affecting such processes as transport and fate of contaminants, hydrologic processes, and many other environmental phenomena. Geographic Information Systems are increasingly used as an indispensable tool for analysis, management, and modeling. (Sp)

G5833 Ground Water Quality Protection. Prerequisite: graduate standing or permission. Introduction to ground water quality protection. Covers sources of ground water, ground water hydrology, ground water information sources, ground water pollution sources, subsurface transport and fate processes and monitoring of ground water systems. (F)

G5843 Hydrology. Prerequisite: graduate standing in civil engineering, environmental science or geology, or permission. An applied course on hydrology dealing with environmental water problems; principles of hydrologic systems, their structure and components; methods of analysis and their application to various purposes of water resources planning and development. (Sp)

G5853 Groundwater and Seepage (Crosslisted with Geology 5853). Prerequisite: graduate standing in civil engineering, environmental science or geology, or permission. Applied course dealing with properties of aquifers, modeling of groundwater flow, groundwater hydrology and its interrelation with surface water, well hydraulic, pumping tests and safe yield of aquifers. (F)

G5873 Water Quality Management. Prerequisite: senior or graduate standing. Water quality in lakes, rivers, estuaries; chemical, physical and biological aspects of marine and fresh waters; waste assimilation; system modeling; water quality management; waste load allocation, and engineer controls. (Sp)

G5883 Environmental Modeling. Prerequisite: Aerospace and Mechanical Engineering 5573 or permission of instructor. Introduction to theoretical and practical issues of computer-based environmental modeling. Covers problem formulation, implementation, and application. Topical areas include conceptualizing problems, conservation laws, partial differential equations, numerical methods, and applications ranging from coastal hydrodynamics to contaminant transport. Emphasis on understanding the model process rather than using “canned” models. (F)

G5923 Air Pollution Control Engineering. Prerequisite: senior or graduate standing. Basic aspects of air pollution; legislation, sources and effects; monitoring and atmospheric dispersion. Particulate emissions; control of particulates by settling chambers, cyclones, scrubbers, filters, electrostatic precipitators; gaseous emissions; control of gases by absorption; absorption (scrubbers) and combustion. (F)

G6980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G6663 Advanced Finite Element Methods (Crosslisted with Aerospace and Mechanical Engineering 6663). Prerequisite: 5763. Selected topics such as: nonlinear material problems; plasticity, creep (visco-plasticity), fracture, etc.; geometrically nonlinear problems, large displacement and structural stability; dynamic problems and analytical solution procedures; soil-structure interactions; application of finite element method to fluid and heat transfer problem. (Irreg.)

G6743 Earthquake Engineering. Prerequisite: 5673. Causes and characteristics of earthquakes; source mechanisms and source parameters; types and effects of various seismic waves; seismic risk and seismicity in a region; attenuation relationships; structural response to earthquakes, seismic design of structures and seismic codes; case studies and special topics in earthquake engineering. (Irreg.)

G6980 Research for Doctoral Dissertation. (F, Sp, Su)

These courses, conducted in English, require no knowledge of Greek or Latin; they may not be used to satisfy requirements in foreign languages.

2383 Classical Mythology. Prerequisite: sophomore standing. Lectures, with assigned readings. The origin and development of Greek and Roman myths indispensable for the understanding of ancient and modern literature; with allusion to their influence on art and religion. (F, Sp, Su) (I/AWC)

2412 Medical Vocabulary. Prerequisite: sophomore standing. Designed to be of special use to students of the biological sciences. Study of basic Greek and Latin elements of medical terminology through the analysis of select vocabularies and word lists. (F, Sp, Su)

2603 Survey of Ancient Greek Culture. Traces the development of the democratic ideal in Greece through the Classical period. Aspects of culture such as literature, religion, art and architecture, education, science and technology, intellectual life and the role of women are emphasized. (F) (I/AWC)

3033 Latin Literature in English Translation. Prerequisite: sophomore standing. May be repeated; maximum credit six hours. Readings in a selected genre (e.g., epic, drama, satire, lyric), with lectures on the history and development of Latin literature. The Greek background to Latin literature and the Romans’ influence on later works. (I/AWC)

3043 Freedom in Rome. Covers the ideas and institutions of liberty in Rome. Focus is on the balanced constitution of the Roman republic individual and the emergence of new forms and conceptions of liberty. These ideas are taken from within the framework of the intellectual, social and political currents of the Roman Empire. (Sp) (I/AWC)

3113 Greek Epic Poetry in English Translation. Prerequisite: junior standing. Lectures with reading and discussion. The early Greek epic poetry of Homer and Hesiod in its literary, and historical context. The Greek epic tradition in later Latin and European literature. (F) (I/AWC)

3123 Greek Tragedy in English Translation. Prerequisite: junior standing. Lectures on the development of the Greek theater and tragedy. Lectures with readings and discussion from the works of Aeschylus, Sophocles and Euripides and from Aristotle’s Poetics. The influence of Greek tragedy in later Latin and European literature. (Sp) (I/AWC)

3133 Plato and the Platonic Tradition. A study of the major ideas in the central works of Plato and of their influence on the Neoplatonists. (Sp) (I/AWC)

3143 Women in Antiquity. Prerequisite: junior standing. Survey of the roles of women in Ancient Greece from the Bronze Age through the Hellenistic Period. Primary and secondary sources are utilized to provide students with both a literary and historical perspective of women in this time frame.
3153 Vice and Virtue in Ancient Rome. Prerequisite: sophomore standing. The transformation of the character of ancient Romans from the early Republican period through the Empire. Focus on changes in their value system brought about through the acquisition of an empire, intrusion of Greek ideas, results of specific historical events, and actions of specific individuals.

3163 Virgil and Dante. Prerequisite: sophomore standing. This course focuses on Virgil's influence on Dante. Virgil celebrates, in both The Georgics and The Aeneid, the outcome of the struggle against external furor and passion and those elements within the individual. Dante, with Virgil as his spiritual guide in The Inferno, presents a series of spiritual exercises. (F) [IV-WC]

3173 Freedom in Greece. The ideas and institutions of liberty in Greece. Focus is on the Athenian democracy and the relationship between democracy and the art and literature of Athens. (F) [IV-WC]

3213 Classical Art and Archaeology: Greek Art to the Death of Alexander (Crosslisted with Art History 3213). Prerequisite: sophomore standing. Lectures, occasionally illustrated, and assigned readings. Survey of the architectural, sculpture, painting and minor arts in the Greek regions of the eastern Mediterranean in the successive stages of their development; with analyses of dominant styles and detailed study of select masterpieces and monuments. (F) [IV-AF]

3223 Classical Art and Archaeology: Hellenistic Greek Art; Roman Art (Crosslisted with Art History 3223). Prerequisite: sophomore standing. Continuation of 3213. Survey of Hellenistic art with particular attention to the individuality of style and diversity of matter. Early Etruscan and Roman art. The development of Roman art in native and assimilated forms; studies in domestic and national monuments. (Sp) [IV-AF]

3233 The Roman Forum and Its Monuments. Focus on the excavation of the Roman Forum, the central part of ancient Rome. Concentrated study on archaeological methodology, specific excavations, topography of Rome and the cultural significance of Roman urban development on the ancient world. (Sp)

3303 Comparative Mythology. Focus on Greek, Scandinavian and Celtic mythology. Show similarities between the myths of different cultures and how myths can be culture-specific. [IV-WC]

3510 Selected Topics in Classical Culture. 2 to 3 hours. May be repeated; maximum credit nine hours. A study of selected topics in the civilizations and cultures of the Romans, Greeks and Hebrews. (F, Sp, Su)

3613 Classical Influence on Modern Literature. Identifies the continuing importance of the classical tradition in modern literature. [IV-WC]

3623 Celtic Myth and Irish Literature. Prerequisite: junior standing. Examines how early Celtic myths and legends are used and reinterpreted by 19th and 20th-century Irish writers as part of the formation of an Irish cultural identity. (Sp) [IV-WC]

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (F, Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

4503 Classical Culture Capstone Course. Prerequisite: senior standing in major. Students work on an individual basis in conjunction with a member of the Classics faculty and the student will write a senior paper on a topic to be chosen in consultation with the faculty member which will demonstrate a comprehensive understanding of one of the major areas of Greco-Roman civilization. [IV]

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5990 Special Studies. 1 to 3 hours. Prerequisite: graduate standing. May be repeated; maximum credit six hours. Reading and research, arranged and directed in consultation with the instructor, in specified areas of classical civilization and culture. (F, Sp, Su)

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**College of Arts and Sciences (CAS)**

**3901 Arts and Sciences Co-Op Program.** Prerequisite: concurrent participation in A&S Co-Op Program. Program allows students to work outside the university in a job related to the major. Enrollment in this course will be during a term in which a student is working full-time, with the cooperation of the employer, with the intent of returning to OU to continue with the degree requirements. Upon completion of the term’s work, the student will write a paper describing their work experience and the relevance to their major. (F, Sp, Su)

**4091 Career Planning for Arts and Sciences Students.** Prerequisite: junior standing in College of Arts and Sciences. Assists students in the College of Arts and Sciences to determine personal career goals, explore career opportunities beyond graduation, develop a strategy for the job search process, and improve job search techniques as life-long resource tools. (F, Sp)

**G3960 Directed Readings.** 1 to 3 hours. Prerequisite: graduate standing and permission of department. May be repeated; maximum credit twelve hours. Directed readings and/or literature reviews under the direction of a faculty member. (F, Sp, Su)

**Communication (COMM)**

**1113 Principles of Communication.** Introductory study of human communication emphasizing both the theoretical understanding of the process as well as the practical application of communication principles and techniques within a variety of settings. (F, Sp, Su) [I-O]

**2003 Communication in Non-Western Culture.** Designed to broaden students’ perspectives on human communication beyond the boundaries of Western cultural traditions. Focuses on cultural differences in communication and how early Celtic myths and legends are used and reinterpreted by 19th and 20th-century Irish writers as part of the formation of an Irish cultural identity. (Sp) [IV-WC]

**3613 Classical Influence on Modern Literature.** Identifies the continuing importance of the classical tradition in modern literature. (F, Sp)

**3623 Celtic Myth and Irish Literature.** Prerequisite: junior standing. Examines how early Celtic myths and legends are used and reinterpreted by 19th and 20th-century Irish writers as part of the formation of an Irish cultural identity. (Sp) [IV-WC]

**3901 Arts and Sciences Co-Op Program.** Prerequisite: concurrent participation in A&S Co-Op Program. Program allows students to work outside the university in a job related to the major. Enrollment in this course will be during a term in which a student is working full-time, with the cooperation of the employer, with the intent of returning to OU to continue with the degree requirements. Upon completion of the term’s work, the student will write a paper describing their work experience and the relevance to their major. (F, Sp, Su)

**4091 Career Planning for Arts and Sciences Students.** Prerequisite: junior standing in College of Arts and Sciences. Assists students in the College of Arts and Sciences to determine personal career goals, explore career opportunities beyond graduation, develop a strategy for the job search process, and improve job search techniques as life-long resource tools. (F, Sp)

**G3960 Directed Readings.** 1 to 3 hours. Prerequisite: graduate standing and permission of department. May be repeated; maximum credit twelve hours. Directed readings and/or literature reviews under the direction of a faculty member. (F, Sp, Su)

**Communication (COMM)**

**1113 Principles of Communication.** Introductory study of human communication emphasizing both the theoretical understanding of the process as well as the practical application of communication principles and techniques within a variety of settings. (F, Sp, Su) [I-O]

**2003 Communication in Non-Western Culture.** Designed to broaden students’ perspectives on human communication beyond the boundaries of Western cultural traditions. Focuses on cultural differences in communication and how early Celtic myths and legends are used and reinterpreted by 19th and 20th-century Irish writers as part of the formation of an Irish cultural identity. (Sp) [IV-WC]

**2111 Practicum in Forensics.** May be repeated; maximum credit four hours. Develop performance materials (speeches, interpretive cuttings, debate briefs) for use in speech/debate contests. Practice sessions with critiques of performances are given. (F, Sp)

**2113 Introduction to Organizational Communication.** Seeks to enhance the student’s awareness and appreciation of communication processes in organizational settings, as well as to provide information about the roles of communication specialists in organizations. Career opportunities in organizational communication are discussed. (F, Sp)

**2213 Interpersonal Communication.** Introduces the student to the complex interaction of social and psychological forces operating in human communication. Theories will be considered, but in the context of real communication situations in industry, education, medical and legal practice, etc., as well as in empirical research. The most recent laboratory and field research results will be discussed. (F, Sp)

**2313 Native American Intercultural Communication.** An introduction to the study of cross-cultural communication as it pertains to Native Americans. Includes a survey of Native American culture, communication concepts, intercultural communication problems and approaches to their resolution. (F, Sp)

**2513 Introduction to Statistics.** Prerequisite: Mathematics 0123 at OU or satisfactory score on the math placement test. This course introduces statistics with the purpose of providing tools which aid in conducting scientific research. Topics include: Measurement, central tendency, variability, normal distribution, probability, correlation, sampling distributions. (F, Sp) [I-M]

**2613 Public Speaking.** Develops skill in the composition and delivery of speeches suitable to various common speech situations and criteria for judging speeches heard or read. Topics include: nature of public speaking; choosing and presenting a topic; analyzing an audience; organizing and delivering. (F, Sp, Su) [I-O]

**2713 Communication in Society—Core I.** Examines the formats, roles, strategies and constraints of human communication in varied social contexts. (F, Sp, Su)

**3003 Political Campaign Processes.** Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Teaches students to apply communication skills including public speaking, debating, mass media news and advertising to political campaigns. (F, Sp)

**3113 Communication Research Procedures.** Prerequisite: 1113, 2513, or equivalent (PSY 2033, ECON 2843, PS 3123) and 2713 with a grade of C or better and junior standing. Introduction to empirical research design and statistical analysis specifically applied to communication questions. Basic skill
building in areas of statistical probability, descriptive statistics, sampling procedures, group comparisons, population estimates and confidence levels. (F, Sp)

3223 Small Group Communication. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Examination of communication principles in the small group setting. Includes consideration of task and interpersonal dimensions, cohesiveness, conformity and approaches to leadership. (F, Sp)

3243 Communication and Social Change. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Critical analysis and evaluation of persuasive strategies employed in historical and contemporary social movements, especially situations involving agitation and counter-agitation. (F, Sp)

3253 Persuasion Principles. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Study of the humanistic and social scientific approaches to attitude change through discourse. Rhetorical and psychological theories are examined. (F, Sp)

3263 Organizational Communication. Prerequisite: 1113, 2113 and 2713 or junior standing with permission of instructor. Focus on the communication patterns and strategies of private and governmental organizations, including most recent research on problems in management, motivation and communication systems. (F, Sp)

3413 Interethnic Communication. Prerequisite: 1113 and 2713; or junior standing with permission of instructor. Examines the nature of communication between individuals of differing ethnic/racial backgrounds. Identifies behaviors that impede or facilitate the development of positive interethnic relationships. Explores various societal, situational, and psychological forces that influence the communication process. (Irreg.)

3473 Creative Problem Solving. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Explores the nature of creativity, creative thinking and creative problem solving. Emphasis will be placed on small group communication problem-solving processes and techniques. (Irreg.)

3483 Communication and Argumentation. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Seeks to acquaint the student with ways of constructing valid arguments, with application to such communication contexts as policy making, legal decision-making, organizational decision-making and personal inquiry. Fundamentals of argumentation are explored, along with methods of argument construction and numerous contextual applications. (F, Sp)[IV-WC]

3513 Intercultural Communication. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Introduction to intercultural communication theory, research and selected applications. Topics include conceptualizing intercultural communication theoretically, trends in research, diffusion of innovation, nationality barriers and training for foreign assignments. (F, Sp)[IV-WC]

3523 Advanced Interpersonal Communication. Prerequisite: 1113, 2113, and 2713 or junior standing with permission of instructor. Introduces and discusses various approaches (social exchange, pragmatics, social cognition, etc.) toward understanding human interaction. In addition, the following topics are covered: relationship development and termination, life-span communication, the family, friendship relationships, therapeutic relationships, and interpersonal relationships in various organizational settings. (Irreg.)

3613 Mass Media Effect. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Examines theories and effects of mass communication process. Includes theories and effects of media as related to political system, children’s programming, judicial system, radio talk shows, and new communications technologies. (F, Sp)

3633 Health Communication. Prerequisite: 2713, 3023 (with a grade of C or better), 3113 (with a grade of C or better). Communication studies within health and medical care communities. Study of communication between health care provider and patient within health care organizations. Health care policies and health care media campaigns. Look at multiple levels of communication within each area: Interpersonal, intrapersonal, small group, organizational, interorganizational and mass media. (Irreg.)

3023 Communication Research Methods. Prerequisite: 1113, 2513 or equivalent (Psychology 2003, Economics 2843, Sociology 3123), 2613 and 2713 with a grade of C or better. Studies the goals, objects and methods of communication research. Emphasis on the student’s role as a critical consumer of research; exploration of vocational/professional applications of communication study. (F, Sp)

3810 Variable Topics in Communication. 1 to 6 hours. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. May be repeated with change of subject matter; maximum credit six hours. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: 1113, 2713 or junior standing with permission of instructor, and admission to Honors Program. May be repeated; maximum credit six hours. (F, Sp)

be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular courses. (Irreg.)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: 1113, 2713 or junior standing with permission of instructor, and admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The course will deal with concepts not usually presented in regular coursework. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: 1113, 2713 or junior standing with permission of instructor, and admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

G4010 Communication Internship. 1 to 6 hours. Maximum credit six hours. Prerequisite: junior, senior or graduate student major who has completed two-thirds of the communication courses required for graduation, plus permission. Additionally, undergraduate applicants must have an overall grade point average of 3.00 or higher and a grade point average of 3.25 or higher in communication courses. Graduate applicants must have an overall grade point average of 3.25 or higher and a grade point average for communication courses of at least 3.50 for eligibility. A planned work experience related to personal career and academic goals, integrated into the student's academic schedule. It includes working in an assigned workplace several hours a week in addition to completing academic assignments and meeting regularly with organizational and academic supervisors. (F, Sp, Su)

4153 Nonverbal Communication. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. Seeks to expose students to recent research on nonverbal behavior, emphasizing those properties of communication which characterize social and cultural group memberships. (Irreg.)

G4233 Free Speech: Responsible Communication Under Law. Prerequisite: 1113 and 2713 or junior standing with permission of instructor. A study of the interaction between communication and the law. A consideration of the role of law as both deterrent and protector of the communicator's efforts. Attempts to provide a better understanding of the pervasiveness of regulation of communication. (F, Sp)

4323 Political Communication (Crosslisted with Political Science 4323). Prerequisite: 1113 and 2713, or junior standing with permission of instructor. Considers the role of communication in political settings. Major topics include political persuasion, public speaking in political campaigns, political debating, political advertising, bias in news coverage of campaigns. (F, Sp)

4513 International Communication. Prerequisite: 1113, 2713 and 3513 or junior standing with permission of instructor. Studies communication as an essential component of international organizations and relations. Surveys major topics of national and international problems in communication theory, methodology, and research. (F, Sp)

4713 Issues in Communication Study. Prerequisite: 2713, 3023 (with a grade of C or better), 3113 (with a grade of C or better), and 12 hours of 3000- and/or 4000-level non-core courses excluding 4010 and 4990. Must have earned senior standing (90 hours or more) prior to the semester of enrollment. Provides the opportunity to integrate knowledge about communication and apply it to a project culminating in a special research paper. The project will develop a selected problem, issue, or controversy in communication. (F, Sp)[V]

4810 Special Topics in Communication. 1 to 4 hours. Prerequisite: permission of instructor and junior standing. May be repeated with change of content; maximum credit nine hours. Topics vary and are intended to acquaint the advanced communication major with specialized study involving communication theory, methodology, and research. (F, Sp, Su)

4990 Independent Study. 1 to 3 hours. Prerequisite: 1113 and 2713 and three courses in general area to be studied or junior standing with permission of instructor. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5003 Quantitative Research Methods. Prerequisite: Successful score on a proficiency test in statistics administered during new graduate student orientation (deficiency remedied via completion of COMM 3113 or equivalent during the first semester of graduate work at OU). Introduction to social-behavioral science processes of inquiry about human communication phenomena. Examines the relationship of theory and method, looks at various research paradigms and designs, and provides an introduction to descriptive and inferential statistics. (Sp)

G5013 Introduction to Graduate Study. Prerequisite: graduate standing or permission. Traces the development of research and professions in
communication, providing an integrative conception of the discipline and an introduction to research and theory formulation. Students are exposed to those skills critical to success in graduate training in communication. (F)

G5033 Advanced Statistics. Prerequisite: permission of instructor. Advanced statistics covering topics which include: anova, ancova, manova, multiple regression, path analysis, and confirmatory and exploratory factor analysis. (F)

G5043 Organizational Research Practicum. Prerequisite: graduate student major who has completed two-thirds of the communication courses required for graduation, plus permission. Applicants must have an overall grade point average of 3.25 or higher. Provides practical research experience in an organization. Student adviser and organization's sponsor must agree through a written contract about the goals, plan, and activities associated with the research project. (Irreg.)

G5113 Nonverbal Communication: Theory and Research. Prerequisite: graduate standing; 5003 or permission. Studies social-psychological and linguistic-ethological approaches to nonverbal communication research and theory building. (Irreg.)

G5213 Interpersonal Communication. Prerequisite: graduate standing or permission. Studies the research and theories in interpersonal communication with emphasis on dyads and small groups, public address, message analysis and nonverbal communication. (Irreg.)

G5223 Historical Development of Communication Theory. Prerequisite: graduate standing or permission. Presents the evolution of communication theory from ancient rhetorical traditions of Aristotle and Plato to World War II. Emphasis is given to both the constant and the changing elements of communication theory from the ancient to the modern era. (Sp)

G5233 Communication and Social Change. Prerequisite: graduate standing or permission. Studies alternative theories of social change, both historical and modern, with emphasis on the role played by communication at the interpersonal, group and social levels. (F)

G5243 Language Perspectives of Communication. Prerequisite: graduate standing or permission. Investigates the role of language behavior research, epistemological foundations, linguistics, speech act theory, sociolinguistics, psycholinguistics and ethnomet hodology. (Irreg.)

G5253 Cross-Cultural Communication: Theory and Research. Prerequisite: graduate standing or permission. Study of theory of cross-cultural communication with special attention to language, stereotyping, perception, role, power and nonverbal communication as such variables operate in cross-cultural situations. (F)

G5263 Health Communication. Prerequisite: graduate standing or permission. A broad overview of theoretical and applied approaches to health communication. Students are exposed to a variety of health communication topics including doctor-patient communication, health information campaigns, mass media influences on health, role of culture in health and disease, health care organizations, and group influences on well-being. (F)

G5313 Qualitative Research Methods (Crosslisted with Sociology 5313). Prerequisite: graduate standing. Introduces students to the use of qualitative methods in social sciences research. Students will learn how to use participant observation, informal interviewing and other techniques to collect information on social sciences topics. (F)

G5333 Organizational Communication. Prerequisite: graduate standing. Focuses on the communication environment of organizations, both internal and external, emphasizing implications of organizational designs for communication, communication principles to motivate employees, and the role of communication for productivity and the quality of life. (Irreg.)

G5343 Mass Communication Perspectives. Prerequisite: graduate standing. Analyzes the development of modern mass communication theory, discusses the effects of the media on individuals and society, and surveys new approaches to research and theory development in the mass communication area. (Irreg.)

G5353 Conflict Management. Prerequisite: graduate standing. Examines theory and research about conflict management in various communication contexts. Takes a social scientific approach to conflict management with emphasis on cognitive processes, affective systems, interaction sequences and strategies and tactics related to how people negotiate the meaning and management/resolution of conflict. (Irreg.)

G5363 Communication and Technology. Prerequisite: graduate standing or permission. Provides a comprehensive overview of emerging technologies (e.g., teleconferencing, electronic mail, videotex, electronic bulletin boards, telecommuting, distance education, media richness, voice messaging, invisible technologies, etc.) and analyzes some of the social and behavioral effects of these technologies on human interaction in interpersonal, organizational, small group, and institutional contexts. (F)

G5373 Communication and Leadership. Prerequisite: graduate standing. Examines theory and research related to the philosophy and behaviors associated with leadership communication in various contexts. Emphasis placed on unique aspects of messages as individuals enact leadership roles. Scholarship from several areas of the social sciences will be considered, but communication theory will be given primary emphasis. (F)

G5383 Survey of Political Communication (Crosslisted with Political Science 5383). Prerequisite: graduate standing. Surveys communication in the political system. Discusses theory and research on interpersonal, public and mass communication in politics, particularly political campaigns. (Irreg.)

G5453 Social Influence. Prerequisite: graduate standing. A social scientific approach to the study of influence (persuasion), emphasizing scholarship drawn from speech communication, mass communication and social psychology. (F)

G5553 Persuasive Communication Campaigns. Prerequisite: graduate standing. Theory and research about persuasive communication campaigns which involve conscious sustained communication efforts designed to influence the thinking, feelings and/or behaviors of targeted receiver groups. (Sp)

G5810 Special Topics in Communication. 1 to 4 hours. Prerequisite: junior standing and permission of instructor. May be repeated with change of content; maximum credit nine hours. Topics will vary and are intended to acquaint the graduate communication major with specialized study involving communication theory, methodology and research. (F, Sp, Su)

G5960 Directed Readings. 1 to 3 hours. Prerequisite: 12 hours of graduate work in communication and permission of instructor. May be repeated; maximum credit, six hours for the master's degree and nine hours for the Ph.D. Intensive survey of the literature in a selected area of communication under the direction of a graduate faculty member. (F, Sp, Su)

G5970 Seminar. 1 to 3 hours. Prerequisite: graduate standing; others may be admitted by permission of instructor. May be repeated with change of content; maximum credit nine hours. Provided special topics in communication.

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G6013 Special Problems in Communication Research. Prerequisite: graduate standing; 5003 and permission. Other preparation may be needed for enrollment in particular sections. May be repeated with change of topic. Explores special issues and problems in communication research which characterize areas of specialty in communication, including social and mass communication, evaluative techniques and rhetorical criticism. (F, Sp)

G6023 Communication Research Task Groups. Prerequisite: graduate standing; 5003 and permission. May be repeated; maximum credit 12 hours. Designed to explore numerous topics in communication study, including the development and execution of research in communication. (F, Sp)

G6233 Small Group Processes. Prerequisite: 5003 and 5323 or permission. Considers current status of small group theory and research, emphasizing leadership. Includes both the development of a tentative theory of leadership and the application of small group theory to the process of decision making. (F, Sp)

G6283 Political Advertising. Prerequisite: graduate standing or permission. Studies the content and effects of advertising for political policy issues, and international political advertising. (F)

G6314 History and Theory of Communication. Prerequisite: 5003, 5013, and 5313 or permission of instructor. Presents the evolution of communication theory from ancient rhetorical traditions to the present. Topics covered include: classical origins of communication; enlightenment contributions to theory; interdisciplinary roots of communication study; and contemporary theories of communication. (Sp)

G6323 International Communication. Prerequisite: 5253 or permission. Studies communication as an essential component of international organizations, nation states, diplomatic relations and other political and social units. Emphasizes the role of communication in international decision making, conflict resolution and negotiation. (Irreg.)

G6373 Seminar in Mass Communication. Prerequisite: 5343 or permission. May be repeated with change of topic; maximum credit nine hours. Variable content seminar. Considers differing topics in contemporary mass communication theory and research. (Sp)

G6383 Seminar in Political Communication (Crosslisted with Political Science 6383). Prerequisite: permission. May be repeated with change of topic; maximum credit nine hours. Studies educational problems in teaching oral communication in secondary schools and colleges. (Irreg.)
G6413 Interethnic Communication Seminar. Prerequisite: graduate standing or permission. An interdisciplinary survey of theory and research pertaining to issues of interethnic/interracial communication. Specific verbal and nonverbal communication behaviors are examined in conjunction with salient contextual factors of the macro-societal, situational, and psychological milieu surrounding the communication process. (Irreg.)

G6423 Communication in Health Organizations. Prerequisite: graduate standing. Examines delivery and exchange of messages within health organizations with emphasis on conflict, bargaining, and negotiating, communication networks and environments, virtual systems of communication, etc. (Sp)

G6433 Seminar in Intercultural Communication. Prerequisite: 5003 and 5253 or equivalent or permission. Studies communication across cultural boundaries with emphasis on comparative analysis of communication systems of various cultures, factors involved in predicting intercultural communication patterns and effects, and the role of communication in cultural and technological development. Special attention is given to communication problems between subcultures in American society. (Irreg.)

G6453 Seminar in Social Influence. Prerequisite: 5453 or permission of instructor. May be repeated with change of topic; maximum credit six hours. Seminar on specialized topic in social influence. Content focus varies with instructor. (Sp)

G6970 Seminar. 1 to 4 hours. Prerequisite: graduate standing, permission of instructor. May be repeated with change of topic; maximum credit fifteen hours. Seminar on specialized topic in social influence. Content focus varies with instructor. (Sp)

G6980 Research for Doctor’s Dissertation. 2 to 16 hours. (F, Sp, Su)

G6990 Independent Study. 1 to 4 hours. May be repeated; maximum credit eight hours. An individual course of intensive study with the area and problems to be determined by the student and the instructor responsible for supervising the study. (F, Sp, Su)

Computer Science (C S)

1313 Programming for Nonmajors. Prerequisite: Mathematics 1523 or equivalent. Introduction to the design and implementation of computer programs. Emphasis on problem solving. (F, Sp)

1323 Introduction to Computer Programming. Prerequisite: Mathematics 1523 or equivalent. Introduction to the design and implementation of computer software with an emphasis on abstraction and program organization. (F, Sp)

1813 Discrete Mathematics. Prerequisite: 1323 and Mathematics 1823. Introduction to the mathematical foundation of computer science. Topics include logic, sets, relations, functions, proof techniques including mathematical induction, counting, graphs and trees, and recursion. (F, Sp)

2281 Engineering Co-Op Program (Crosslisted with AME, CH E, C E, CSE, ENGR, EPHY, E S, G E, I E, P E 2281). Prerequisite: student participation in the program. The Co-Op program provides student placement in jobs outside the University, but in a position related to the student’s major. On completion of a semester work period, the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

2334 Programming Structures and Abstractions. Prerequisite: 1323 and Mathematics 1823. Application of software engineering principles with examples from central areas of computer science. Use of abstract data types such as stacks, queues, lists, and trees, File processing, Introduction to ethics in computer science, including philosophical ethics theories. Discussion of intellectual property rights and privacy. (F, Sp)

2413 Data Structures. Prerequisite: 1813, 2334. Representation and analysis of widely used data structures and associated algorithms. Design of software systems. Written communications required in some projects. Discussion of ethical issues including computer crime, abuse, and hacker ethics. (F, Sp)

2613 Computer Organization. Prerequisite: Electrical and Computer Engineering 2213. Introduction to the organization and structuring of the major components of computers and the transfer of information among these components for control and data processing. (F, Sp)

3053 Graphical User Interfaces. Prerequisite: 2413. An introduction to human-computer interaction, and graphical user interfaces. Topics include: principles of human-computer interaction, human cognitive abilities, interface analysis and design, window systems, and social implications of computing. Current interface programming tools will be described and used. Oral presentations are required for some assignments. (F, Sp)

3113 Introduction to Operating Systems. Prerequisite: 2413 and, either 2613 or Electrical and Computer Engineering 3223. An introduction to the major concept areas and techniques of designing and implementing operating systems. Class projects require the design of medium-scale software systems. (F, Sp)

3823 Theory of Computation. Prerequisite: 2143 and 2413, or 5005. Introduction to abstract machine theory and formal language theory. Topics include turing machines, finite/pushdown automata, deterministic versus nondeterministic computations, context-free grammars, and mathematical properties of these systems. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in the regular courses. (F, Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of topic; maximum credit eight hours. Projects covered will vary. Deals with concepts not usually presented in regular coursework. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject matter; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student’s field. (F, Sp, Su)

†G4004 Graduate Preparation I. Prerequisite: permission of graduate liaison. An introduction to Boolean algebra, combinational logic circuits, finite state machines, and sequential circuits. Design and analysis of the architecture and organization of computer systems. Topics include processor, control, and memory design and organization, pipelining and vector processing, and computer arithmetic. An introduction to operating systems, Process management including CPU scheduling, process synchronization, and deadlocks; memory management, file systems, protection and security, and I/O systems. Credit hours earned for this course cannot be used to fulfill degree requirements for the M.S. or Ph.D. programs in computer science. (F)

†G4005 Graduate Preparation II. Prerequisite: permission of graduate liaison. This course has three parts: discrete mathematics, object-oriented programming in C++, and data structures in C++. As part of the discrete mathematics students will be introduced to combinatorics, logic, relations, functions, computational complexity, automata, and graph theory. Students will be introduced to the fundamentals of object-oriented programming and learn to design, build, and analyze data structures using object-oriented principles and techniques. Credit hours earned for this course cannot be used to fulfill degree requirements for the M.S. or Ph.D. programs in computer science. (F)

G4013 Artificial Intelligence. Prerequisite: 1813 and 2413, or 5005. Study of the methods of search, knowledge representation, heuristics, and other aspects of automating the solution of problems requiring intelligence. (Sp)

4023 Introduction to Intelligent Robotics (Slashlisted with 5023). Prerequisite: 2413 or permission of instructor. History of intelligent robotics; functional models approach; reactive robots; ethnology for robotics; architectures and methodologies; implementation; sensing; hybrid deliberative/reactive robotics; multi-robot systems; navigation; topological path planning; metric path planning; localization and mapping. No student may earn credit for both 4023 and 5023. (Sp)

4053 Computer Graphics (Slashlisted with 5053). Prerequisite: 2413. Mathematics 2433, 3333 and senior standing. An introduction to computer graphics. Topics include coordinate systems, transformations, rendering in both two and three dimensions, and programming in X Windows. No student may earn credit for both 4053 and 5053. (Sp)

4113 Operating Systems Theory (Slashlisted with 5113). Prerequisite: 3113, Mathematics 4753 or Engineering 3293. Continuation of study from 3113, with advanced topics and examples, and simulation techniques used in performance evaluation. No student may earn credit for both 4113 and 5113. (Sp)

4133 Data Networks (Slashlisted with 5133). Prerequisite: 3113 or permission of instructor. Comprehensive treatment of data networking principles including: layered protocol design and their functions; tools for performance analysis, multi-access communication, routing and flow control. No student may earn credit for both 4133 and 5133. (F)

4263 Software Engineering I. Prerequisite: 3823 or 3113 or concurrent enrollment in 3113. Methods and tools for software specification, design, and documentation. Emphasis on architectural modularity, encapsulation of software objects, and software development processes such as design review, code inspection, and defect tracking. Students working in teams apply these ideas to design and document software products. Study of professional ethics, responsibility, and liability. (F)

†G4273 Software Engineering II. Prerequisite: 4263. Methods and tools for software development, testing, and delivery. Emphasis on data abstraction and
Students working in teams implement a significant software product, including design documents, user's guide, and process reports, using methods and processes studied in Software Engineering I. Students will practice oral and written communication skills. (Sp)

G4313 Programming Language Concepts. Prerequisite: 3823. Study of the principles that form the basis of programming language design: abstraction, parameterization, object-level and argument association mechanisms, interpreters. (Sp)

G4232 Compiler Construction. Prerequisite: 3823. Introduction to the theory and implementation of programming language compilers and interpreters. Class projects require the design of medium scale software systems. (Sp)

G4413 Algorithm Analysis. Prerequisite: 2413 or 5005. Design and analysis of algorithms and measurement of their complexity. (F)

G433 Computational Methods in Discrete Optimization (Slashlisted with 5433). Prerequisite: 4413 or equivalent. Linear programming: simplex method for LP problems, degeneracy and anticycling strategies, duality theory and complementary slackness conditions, revised simplex method, sensitivity analysis and simplex method for general LP problems. Network optimization: the transshipment problem, network simple method, shortest path algorithms, the maximum flow problem, and the primal dual method. No student may earn credit for both 4433 and 5433. (F)

G4513 Database Management. Prerequisite: 2413 and senior standing or 5005. Emphasizes concepts and structures necessary to design and implement a database management system. (F)

G4613 Computer Architecture (Crosslisted with Electrical and Computer Engineering 4613). Prerequisite: 2613 or Electrical and Computer Engineering 3223, or 5004. Covers basic concepts of computer system design and communication between components, along with current and historical examples of computer architecture. (F)

G4743 Scientific Computing I (Slashlisted with 5743). Prerequisite: Mathematics 3333, Engineering 3723 or Mathematics 4073. Interaction between applications, architectures, and algorithms. Review of linear algebra, serial, pipelined vector processors, cluster of processors. Measures of performance of parallel algorithms. Parallel algorithms for the solution of linear systems. No student may earn credit for both 4743 and 5743. (F)

4910 Senior Reading and Research. 1 to 3 hours. Prerequisite: senior standing, permission of instructor. May be repeated with change of subject matter; maximum credit six hours. Individually supervised reading and research in computer science for gifted seniors. (F, Sp, Su)

4970 Undergraduate Seminar. 1 to 3 hours. Prerequisite: senior standing, permission of instructor. May be repeated with change of subject matter; maximum credit three hours. A special type of seminar necessitated by the rapidly changing nature of modern data processing information science and computing sciences. (Irreg.)

G5023 Introduction to Intelligent Robotics (Slashlisted with 4023). Prerequisite: 2413 or permission of instructor. History of intelligent robotics; functional models approach; reactive robots; ethology for robotics; architectures and methodologies; implementation; sensing; hybrid deliberative/reactive robotics; multi-robot systems; navigation; topological path planning; metric path planning; localization and mapping. No student may earn credit for both 4023 and 5023. (Sp)

G5053 Computer Graphics (Slashlisted with 4053). Prerequisite: 2413 or 5005, and Mathematics 2443, 3333 and graduate standing. An introduction to computer graphics. Topics include coordinate systems, transformations, rendering in both two and three dimensions, and programming in X windows. No student may earn credit for both 4053 and 5053. (Sp)

G5113 Operating Systems Theory (Slashlisted with 4113). Prerequisite: 3113 or 5004, Mathematics 4753 or Engineering 3293. Continuation of study from 3113, with advanced topics and examples, and simulation techniques used in performance evaluation. No student may earn credit for both 4113 and 5113. (Sp)

G5123 System Modeling and Performance Evaluation. Prerequisite: 3113 or 5004, and Engineering 3293 or Mathematics 4753. Study of queuing network models and their applications to operating systems, communication networks, and multi-access computer systems. (Sp)

G5133 Data Networks (Slashlisted with 4133). Prerequisite: 3113 or 5004 or permission of instructor. Comprehensive treatment of data networking principles including: layered protocol designs and their functions, tools for performance analysis, multi-access communication, routing and flow control. No student may earn credit for both 4133 and 5133. (F)

G5143 Network Design and Management. Prerequisite: 4133 or 5133, or equivalent. Basic concepts in networks; modeling and evaluation techniques; network analysis: delay, loss and throughput, centralised network design; distributed network design, network reliability; applications to local area wireless, wide area, multi-service networking, etc.; network management: SNMP OSi management, distributed network management and architectures. (Sp)

G5153 Network Security. Prerequisite: 4133 or 5133. Topics in network security including the inter-network security model, introduction to cryptography, public key encryption and hash functions, network security practice, and system security. (Sp)

G5193 Special Topics in Networks and Distributed Systems. Prerequisite: permission of instructor. May be repeated; maximum credit 12 hours. Topics vary; topics related to networks and distributed systems. (F)

G5213 Software Engineering Processes. Prerequisite: 3113 or 3823 or 5004. Effective processes for software requirements specification, planning, design, documentation, development, review, defect tracking, testing, product delivery, and product evaluation. Emphasis on resource tracking and software quality. Students work in teams to develop, deliver, and evaluate software products. (F)

G5413 Computational Complexity. Prerequisite: 4413 and 3823 or 5813. Computational complexity theory dealing with various models of computation and a detailed analysis of P and NP hard problems. (Sp)

G5433 Computational Methods in Discrete Optimization (Slashlisted with 4433). Prerequisite: 4413 or equivalent. Linear programming: simplex method for LP problems, degeneracy and anticycling strategies, duality theory and complementary slackness conditions, revised simplex method, sensitivity analysis and simplex method for general LP problems. Network optimization: the transshipment problem, network simple method, shortest path algorithms, the maximum flow problem, and the primal dual method. No student may earn credit for both 4433 and 5433. (F)

G5443 Advanced Discrete Optimization and Networks. Prerequisite: 4413. Review of basic algorithm techniques: DFS, BFS, shortest paths, min-cost spanning tree, etc.; maximum flow problems: labeling and preflow-push algorithms, maximum flow in unit capacity networks and complexity analysis; min cost-flow problems: duality theory, network simplex, primal-dual and relaxation methods; matching; bipartite matching, weighted matching and optimum assignment problems; connectivity: biconnectivity and K-connectivity algorithms; heuristics and approximation algorithms; applications: network design, network reliability and QoS routing etc. (Sp)

G5513 Advanced Database Management. Prerequisite: 4513. An advanced course dealing with both current database applied research subjects and theoretical aspects of relational databases. Selected topics such as distributed databases, object-oriented databases, real-time databases, and multimedia databases will be discussed. (Sp)

G5613 Computer Networks and Distributed Processing. Prerequisite: 4613. Provides a comprehensive treatment of the analysis and design of computer networks. Data communication techniques and distributed processing in a network architecture will be examined. (Sp)

G5633 Advanced Computer Architecture. Prerequisite: 4613. An advanced treatment of computer architecture covering new technological developments, including details of multiprocessor systems and specialized machines. Special emphasis will be devoted to new concepts such as data flow machines, higher level language processors and associative processors. (F)

G5743 Scientific Computing I (Slashlisted with 4743). Prerequisite: Mathematics 3333, Engineering 3723 or Mathematics 4073. Interaction between applications, architectures, and algorithms. Review of linear algebra, serial, pipelined vector processors, clusters of processors. Measures of performance of parallel algorithms. Parallel algorithms for the solution of linear systems. No student may earn credit for both 4743 and 5743. (F)

G5753 Scientific Computing II. Prerequisite: 5743. Special research topics in scientific computing. Possible topics include optimization algorithms, time series modeling, Kalman filtering techniques, and multivariate statistical techniques. (Sp)

G5813 Formal Languages. Prerequisite: 3823. Theory of formal languages. Mathematical modeling of natural or artificial objects, events, and phenomena. Topics include systems for linear/nonlinear objects, their language-theoretical properties, and the related machine theory. (F)

G5823 Cryptography. Prerequisite: 3823 and 4413. Elementary number theory, time complexity for doing arithmetic, finite fields, RSA, discrete logarithm and Diffie-Hellman, zero-knowledge protocols and oblivious transfer. Basic elliptic curve cryptosystems, elliptic curve factorization and primality proving. (Sp)

G5973 Special Topics in Computer Science. Prerequisite: permission of instructor. May be repeated with a change of subject matter. Selected topics of current research interest not covered by regularly scheduled coursework. (F, Sp, Su)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, six hours. (F, Sp, Su)
Course Description:

G5990 Independent Studies. 1 to 3 hours. Prerequisite: graduate standing, permission of instructor. May be repeated with change of topic; maximum graduate credit nine hours. Supervised individual reading and research in computer science for graduate students. (F, Sp, Su)

G6143 Wireless and Mobile Networks. Prerequisite: 4133 or 5133 or permission of instructor. A complete treatment of the issues related to wireless networks, mobiles, and wireless networks, protocols in wireless and mobile networks, location management, quality of service in wireless networks, application in wireless and mobile networks including distributed applications, middleware, mobile transactions, mobile multimedia, and remote execution. (Sp)

G6973 Advanced Topics in Computer Science. Prerequisite: graduate standing. May be repeated with change of subject matter. Selected topics of current faculty research interest at the Ph.D. level not covered by regularly scheduled coursework. (F, Sp, Su)

**Construction Science (CNS)**

1113 Construction Industry: Impact on Society. Prerequisite: none. Analysis of the cultural context of construction, emphasizing its centrality in the evolution and expansion of the built environment. The primary focus will be on the human elements and issues that have impacted the industry and society in both historical and present contexts. (F)

1212 Computers in Construction. An introductory course providing the student with basic computer application knowledge. Familiarizes student with current applications of spreadsheet, presentation, and AutoCAD software for use in the construction industry. (Sp)

2113 Construction Drawings. Prerequisite: 1212. Provides students with the knowledge and skill to interpret, explain, quantify, and use working drawings to bid, construct, and inspect construction projects. Understanding and quantifying working drawings permits the construction manager to interpret the intent of the designer and to communicate this to the field personnel. (F)

2713 Construction Materials and Procedures. Prerequisite: 1212. Detailed survey of materials, methods, and procedures used in a variety of building types. Students will also gain an understanding of the basis for choosing different materials and methods. (F)

2913 Construction Equipment and Methods. Prerequisite: 1212. Performance, relative cost, depreciation and use of equipment in construction. Class reports are required on construction equipment. Field trips are made to view and evaluate construction equipment. (F, Sp)

3103 Construction Surveying. Prerequisite: 2713. The practical application of taping, differential, profile, trigonometric leveling, angle measurement, traversing, and other instrument layout techniques for vertical and horizontal construction project control and layout. (F)

3113 Construction Administration. Prerequisite: 2713, Communications 1113. Introduction to construction project administration procedures and necessary documentation; including simplified project accounting, contract administration, project permitting, daily administration, field documentation, and progress and cost reporting. (F)

3153 Legal Issues in Construction. Prerequisite: 3113, Legal Studies 3223. An examination of current construction law as it pertains to the day-to-day management of the construction contract. Includes legal ramifications of construction bidding, contracts, changes, delays and dispute resolution. Emphasis is on the reduction of dispute through knowledge. (Sp)

3513 Cost Estimating I. Prerequisite: 2113, 2713. Familiarizes students with the basic foundations of the estimating process including quantity surveying, the organization of the estimate, and visualization of the project. Labor costs as well as overhead and profit are also introduced. (F, Sp, Su)

3813 Project Planning and Scheduling. Prerequisite: 3113, 3513. Application of scheduling techniques in an integrated construction planning, scheduling and control system. Includes theory, options, legal implications and practice. Students plan the construction of their projects from estimating and use microcomputer software to schedule and set up control systems for the projects. Laboratory (Sp)

3943 Field Work. Prerequisite: junior standing and permission. Utilize a construction work experience to prepare for construction management functions. Student is responsible for finding the construction-related activity and proposing a work-related project. Written and oral presentation is required. (F, Sp, Su)

4123 Construction Economics. Prerequisite: 3813. Learn to work with the time value of money, present value, and sensitivity analysis. Develop both graphic and computer-based cash flow models of typical income-producing construction projects. (F)


4960 Directed Reading. 1 to 4 hours. Prerequisite: senior standing, permission. May be repeated with change of subject matter; maximum credit eight hours. Subjects proposed by students or instructors may be used to expand knowledge beyond the normal core construction curriculum. Verbal or written presentation may be required to demonstrate successful completion of a subject unit. (F, Sp, Su)

4970 Undergraduate General Departmental Seminar. 1 to 4 hours. Prerequisite: senior standing, permission. May be repeated with change of subject matter; maximum credit twelve hours. Special topics in construction science. (Irreg.)

4991 Construction Seminar. Prerequisite: 3813. An overview of the entry-level management positions in the construction industry through the use of guest speakers, leadership training programs, and attendance at professional organizational meetings. (F)

4993 Construction Science Capstone. Prerequisite: all required CNS courses through fall semester of the senior year. A capstone course integrating all aspects of the construction project management process. Class interaction requires participants to utilize and extend knowledge of areas of expertise used by construction managers. (Sp) [V]

G5513 Project Management and Controls. Prerequisite: 3013, 3813, 5223, 5613, 5623; graduate standing or permission. Detailed application of earned value theory for project control with advanced scheduling and value analysis. Synthesis of construction management and control simulation. (F)

G5523 Design-Build Contracting. Prerequisite: 3113, 3513, 3813, and graduate standing or permission. Evaluation of the life-cycle of a design-build project. Focus on roles and relationships among the owner, designer and builder. Application of advanced cost estimating, proposal writing, performance criteria development, and risk allocation via contract structure. (Sp)

G5613 Information Technology Applications for Construction. Prerequisite: graduate standing or permission. Participants utilize industry and classroom interaction to explore the application of available digital information management technologies in the construction process, create and incorporate digital resources into linear and nonlinear presentation formats, and explore communication potential in the construction marketplace for the World Wide Web. (F)

G5623 Construction Contracts and Finance. Prerequisite: 3113, 3513, 5823, and graduate standing or permission. Development of techniques for economic analysis in construction. Exploration of the legal issues most critical to construction administration. (Sp)

G5813 Facilities Acquisition Planning. Prerequisite: graduate standing or permission. How to buy building design and construction services from the owner’s perspective. (F)

G5823 Quality Management in Construction. Prerequisite: 3113, 3513 or concurrent enrollment; graduate standing or permission. Quality management, productivity evaluation and problem solving skills for construction decision making. Students complete the ten-hour OSHA construction safety class. (F)

G5940 Construction Industry Practicum. 1 to 3 hours. Prerequisite: graduate standing and permission. Utilize construction work experience to prepare for construction management functions. Student is responsible for finding the activity and proposing a work-related project. (Sp)

G5952 Special Studies Presentation. Prerequisite: permission of committee chair. May be repeated; maximum credit six hours. Completion of research for the required special studies project selected by the student and advisory committee. (Irreg.)

G5960 Directed Readings. 1 to 4 hours. Prerequisite: senior or graduate standing. May be repeated once with change of subject; maximum credit six hours. Studies in major field as approved by the individual instructor. (F, Sp, Su)

G5993 Special Studies Research. Prerequisite: permission of committee chair. May be repeated; maximum credit six hours. Credit for applied research for the special studies project selected by the student and advisory committee. (Irreg.)
Course Descriptions

**Creek/Seminole (CREK)**

1713 Beginning Creek/Seminole. Introduction to the structure of the Creek/Seminole language with special attention to its phonology, morphology, and syntax. Conversational practice, vocabulary-building, and the history and culture of the native speech community are also emphasized. (F, Sp) [I-FL]

2733 Intermediate Creek/Seminole. Prerequisite: 1723. A systematic review of the structure of the Creek/Seminole language. Syntactic control and vocabulary expansion are emphasized. Conversational practice and traditional oral texts are used to develop proficiency. (F)

**Dance (DANC)**

1112 Tap I (Crosslisted with Musical Theatre 1112). Prerequisite: 1212 and permission of instructor. May be repeated; maximum credit four hours. Technique emphasizing beginning rhythms, vocabulary, and skills. (F, Sp)

1212 Ballet Technique I. May be repeated; maximum credit four hours. Practice of ballet technique at beginning level. (F, Sp, Su)

1312 Modern Technique I. May be repeated; maximum credit four hours. Practice of modern dance technique at the beginning level. (F, Sp, Su)

1411 Stage Makeup for the Dancer. To develop skill in the application of natural stage makeup for the dancer, including character analysis and traditional styles. (Irreg.)

1442 Jazz I (Crosslisted with Musical Theatre 1442). Prerequisite: 1212 and permission of instructor. May be repeated; maximum credit four hours. Introduction to jazz technique to develop a kinesthetic awareness, body function and expression through the style of jazz dance. (F, Sp)

1713 The Understanding of Dance. A course in dance appreciation covering all aspects of various theatrical dance styles. (IVA-F)

1813 Introduction to Non-Western Dance Forms. An abbreviated examination of the history, evolution, and significance of dance in three regions of the non-western world which possess very distinct dance cultures. (F, Sp) [IV-NW]

1911 Rehearsal and Production. Prerequisite: open to dance majors only. May be repeated; maximum credit four hours. Study, practice and participation in every phase of dance production work and management. Laboratory (F, Sp, Su)

2112 Tap II (Crosslisted with Musical Theatre 2112). Prerequisite: 1112 and permission of instructor. May be repeated; maximum credit four hours. Beginning tap technique emphasizing skill refinement, increased vocabulary, and performance quality. (F, Sp)

2212 Ballet Technique II. Prerequisite: 1212 or permission. May be repeated; maximum credit eight hours. Continuation of 1212. (F, Sp, Su)

2242 Point Class. Prerequisite: 2212 or permission. May be repeated; maximum credit eight hours. Technique and practice on pointe to build strength and proficiency for ballet. (F, Sp)

2292 Ballet Company Apprentice. Prerequisite: permission of instructor. A practical analysis and application of the original and classical ballet repertoire. (F, Sp, Su)

2312 Modern Technique II. Prerequisite: 1312 or permission. May be repeated; maximum credit eight hours. Continuation of 1312. (F, Sp)

2314 Intermediate Modern Technique. Prerequisite: 1312 or permission. May be repeated; maximum credit 16 hours. Intermediate modern dance technique emphasizing skill refinement, increased vocabulary, and performance capabilities, thus enabling the student a more comprehensive education and preparation for a professional dance career. (F, Sp)

2332 Rhythmic Analysis of Movement (Crosslisted with Health and Exercise Sciences 2332). Practical and theoretical study of rhythmic analysis of movement including music notation, percussion accompaniment, perception of rhythmic patterns and rhythmic skill building. (Irreg.)

2392 Modern Company Apprentice. Prerequisite: permission of instructor. A practical analysis and application of the past and present choreographic dance works within the modern dance area. (F, Sp, Su)

2412 Pilates Body Conditioning. May be repeated; maximum credit eight hours. The philosophy of awareness in movement and a total body/mind workout based on the methods developed by Joseph Pilates over 75 years ago. This method is one of physical and mental conditioning designed to work every muscle in the body in an efficient and balanced manner. (F, Sp)

2442 Jazz II (Crosslisted with Musical Theatre 2442). Prerequisite: 1442 or permission of instructor. May be repeated; maximum credit four hours. Continuation of 1442. Emphasis on technique, strength, and performance quality culminating towards advanced beginner-level routines in traditional jazz style; including turns and leaps. (F, Sp)

2632 Introduction to Dance Composition. Prerequisite: 2212 and/or 2312. Basic principles of composition related to the source of movement and elements of design. (Irreg.)

2713 Survey of Dance History. The history of dance as a religion, as recreation and as a fine art will be traced from primitive to modern man. (Irreg.) [IVA-F]

3112 Tap III (Crosslisted with Musical Theatre 3112). Prerequisite: 2112 or permission of instructor. May be repeated; maximum credit six hours. Intermediate tap technique emphasizing skill refinement, increased vocabulary, and performance capabilities. (Irreg.)

3214 Ballet Technique III. Prerequisite: 2212 or permission. May be repeated; maximum credit 32 hours. Continuation of 2212. (F, Sp, Su)

3232 Ballet Pantomime. Prerequisite: 2212 or permission. Study and practice in dramatic movement and formalized gesture as related to nineteenth- and twentieth-century ballet in current repertory. (Irreg.)

3252 Character Dance. Prerequisite: 2212 or permission. May be repeated; maximum credit three hours. Basic ethnic dance styles utilized in ballet performance. (Irreg.)

3262 Ballet Variations. Prerequisite: 3214 or 4214, permission. May be repeated; maximum credit four hours. The study and practice of solo variations in the professional ballet repertoire with emphasis on individual male and female techniques. (Alt. F)

3292 OU Ballet Company. Prerequisite: permission. May be repeated; maximum credit sixteen hours. Rehearsal and performance with the OU Ballet Company. Laboratory (F, Sp, Su)

3314 Modern Technique III. Prerequisite: 2312 or permission. May be repeated; maximum credit 32 hours. Continuation of 2312. (F, Sp, Su)

3392 Repertory Dance Theatre. Prerequisite: permission. May be repeated; maximum credit sixteen hours. Rehearsal and performance with the Repertory Dance Theatre. Laboratory (F, Sp)

3442 Jazz III (Crosslisted with Musical Theatre 3442). Prerequisite: 2442 or permission of instructor. May be repeated; maximum credit four hours. Continuation of 2442. Intermediate-level instruction stressing more complicated routines at a heightened pace utilizing contemporary and traditional routines. (Irreg.)

3632 Dance Composition. Prerequisite: 2332 and either 2312 or 3314 or permission. Theoretical and practical experience with the principles of composition in the area of expressive movement. (Irreg.)

3713 History of Modern Dance. Prerequisite: 2713. History of modern dance from the turn of the twentieth century to the present. (Irreg.) [IVA-F]

3733 History of Ballet. History of ballet from 1580 to the present time. (Alt. Sp) [IV-WC]

3813 History of World Dance. Prerequisite: junior standing or permission of instructor. An examination of the history, evolution and significance of dance in regions which possess very distinct dance cultures throughout the non-European world. (Irreg.) [IV-NW]

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Consists of either reading topics or independent study designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program, junior or senior standing. May be repeated with change of subject; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

G4022 Ballet Repertoire. Prerequisite: permission. Research and analysis of some of the works of the basic classical repertoire insofar as story contents. Musical and choreographic approaches are used by renowned choreographers. (Alt. F)

G4032 Modern Dance Repertory. Prerequisite: 2312 and permission of instructor. A practical analysis and application of the style and creative work of
choreographers who have created the basic professional modern dance repertory. (Irreg.)

**4112 Tap IV (Crosslisted with Musical Theatre 4112)**. Prerequisite: 3112 or permission of instructor. May be repeated; maximum credit four hours. Continuation of 3112. This class is at an advanced level furthering the dancer's vocabulary, refinement of performance skills and ability to pick up steps quickly. (Irreg.)

**4214 Ballet Technique IV**. Prerequisite: 3214 or permission. May be repeated; maximum credit thirty-two hours. Continuation of 3214. (F, Sp)

**4242 Pas de Deux**. Prerequisite: 3214 or 4214 or 5224. Permission. May be repeated; maximum credit four hours. Basic techniques of partnering and being a partner in ballet performance. (Irreg.)

**4442 Jazz IV (Crosslisted with Musical Theatre 4442)**. Prerequisite: permission of instructor. May be repeated; maximum credit four hours. Continuation of 4442. An advanced course stressing skills learned in previous levels. (Irreg.)

**G4612 Ballet Choreography**. Prerequisite: permission. Study and practice in the principle of ballet composition, with emphasis on romantic, classical, neo-Romantic and neo-Classical choreography. (Irreg.)

**4723 Senior Capstone**. Prerequisite: permission of instructor. An advanced, individual project which demonstrates mastery of skills and knowledge in the student's area of interest. Taken in the senior year, the project will be selected under advisement, guided by the appropriate faculty member(s) and include required submission of a written component. [V]

**G4812 Teaching of Ballet Technique**. Prerequisite: 12 hours of ballet or permission. Comprehensive study of the basic ballet exercises and body positions. Terminology and discussions on anatomy for the dancer. Experience in teaching of ballet. (Irreg.)

**G4821 Practical Experiences in Teaching Classical Ballet**. Prerequisite: 4812. May be repeated; maximum credit three hours. Teaching children's ballet classes of various levels. Student will teach an average of 12 classes per semester, and meet with the supervising professor following observation of teaching assignments. (F, Sp)

**4832 Methods in Teaching Dance (Crosslisted with Health and Exercise Sciences 4832)**. Prerequisite: 2332 or equivalent, permission. Methods of teaching through the creative approach. Progressions in teaching dance studies and techniques. (Irreg.)

**G4851 Practical Experience in Teaching Modern Dance**. Prerequisite: 4832. May be repeated; maximum credit three hours. Practical teaching experience in modern dance or creative dance for children. (F, Sp)

**4900 Professional Semester**. 3 to 12 hours. Prerequisite: permission. May be repeated; maximum credit 24 hours. Completing assignment(s) in a professional environment either performing, choreographing, teaching or in administrative work.

**4990 Special Studies**. 1 to 6 hours. Prerequisite: permission. May be repeated with change of subject matter; maximum credit six hours. (F, Sp, Su)

**G5023 Introduction to Graduate Study in Dance**. Prerequisite: graduate standing. Developing research, organizational and refined skills for scholarly writing. Establishing a foundation to analyze existing materials in the dance field for purposes of debate and theory construction. Providing clarification of MFA in Dance expectations and developing a direction/program of study which will enrich knowledge within the discipline. (Irreg.)

**G5090 Graduate Special Studies**. 1 to 6 hours. Prerequisite: permission. May be repeated; maximum credit six hours. A special creative or research project course in any phase of dance adapted to the individual student. (F, Sp)

**G5224 Graduate Ballet Technique**. Prerequisite: 12 hours of ballet, permission. May be repeated; maximum credit sixteen hours. Intensive study of dance techniques for proficiency in performance and teaching. (F, Sp, Su)

**G5292 Advanced Ballet Company Class**. Prerequisite: graduate standing, permission of adviser. Continued enrollment based on performance; maximum credit ten hours. A rehearsal situation which provides the special training required in performance. It is conducted in a practicum-laboratory situation aimed at the graduate student. (F, Sp)

**G5324 Graduate Modern Dance Technique**. Prerequisite: 12 hours of modern dance; permission of adviser. May be repeated; maximum credit sixteen hours. Intensive practice of modern dance techniques for proficiency in performance and teaching. (F, Sp)

**G5392 Advanced Modern Dance Company Class**. Prerequisite: graduate standing, permission of adviser. Continued enrollment based on performance; maximum credit ten hours. A rehearsal situation which provides the special training required in performance. It is conducted in a practicum-laboratory situation aimed at the graduate student. (F, Sp)

**G5613 Graduate Choreography**. Prerequisite: 3632 or 4612 or permission. Practical application of principles of choreography in original production projects. (F, Sp)

**G5812 Advanced Teaching of Dance**. Prerequisite: 4812 or 4832. Theory and practical application of dance pedagogy on different levels of proficiency. (Irreg.)

**G5900 Professional Semester**. 3 to 6 hours. Prerequisite: permission. May be repeated; maximum credit six hours. Study and practice in assuming full responsibility of a project in the area of dance. (F, Sp, Su)

**G5980 Research for Master’s Thesis**. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

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**Drama (DRAM)**

**1114 Costume Construction**. The theory and practice of the construction, finishing and handling of stage costumes. Includes practical production applications. **Laboratory** (F, Sp, Su)

**1124 Stagecraft**. The theory and practice of the construction, painting and handling of scenery and props. Includes practical production applications. **Laboratory** (F, Sp, Su)

**1133 Graphic Techniques for Design in the Theatre**. To introduce the drama student to the fundamental techniques of drafting, sketching and watercolor necessary for rendering scene, costume and lighting designs. (F, Sp, Su)

**1134 Stage Lighting**. Acquaints the student with the technical procedures, instrumentation, equipment, organization and basic design of effective lighting. Includes practical production applications. **Laboratory** (F, Sp, Su)

**1411 Makeup**. To direct and provide experience in the effective application of makeup materials in creating an impression of character. (F, Sp)

**1503 Acting for Nonmajors**. To develop a beginning understanding and appreciation of the art and skill of acting through the study of acting principles, dramatic scenes, and basic stage techniques. (F, Sp, Su)

**1513 Introduction to Acting**. To acquaint the beginning student with the fundamentals of acting and to explore the basic elements of the actor's art. Explores the physical, vocal, emotional and technical aspects of acting in a format that encourages freedom of imagination and personal growth. (F)

**1523 Character Study for the Actor**. Prerequisite: 1513. To develop and exercise basic acting skills through practical application of the fundamental elements of the actor's art. The student will become familiar with the actor's tools and learn how to utilize them on a rudimentary level. Emphasis will be placed upon characterization and beginning script analysis required for character study. (Irreg.)

**1603 Voice and Diction for Nonmajors**. Improves the student's voice, articulation, pronunciation and expressive intonation for effective communication. (Irreg.)

**1643 Voice and Diction I**. Prerequisite: 1523. Improves the student's voice, articulation, pronunciation and expressive intonation for effective communication, and performing for the stage. (Irreg.)

**1713 Understanding the Theatre**. A service course for nonmajors that covers the history and evaluation of various forms of dramatic production offered on stage. (F, Sp, Su) (IVA-F)

**1911 Rehearsal and Production**. Prerequisite: open to drama majors only. May be repeated; maximum credit four hours. Study, practice and participation in every phase of dramatic production work and management; attendance and critical discussion of plays. Kinds of service are given unit evaluations in terms of relative difficulty and time consumption. **Laboratory** (F, Sp, Su)

**2153 Scene Design**. Prerequisite: 1124 and 1133. Acquaints the student with the practical and aesthetic principles involved, and provides experience in designing scenery. (F)

**2223 Lighting Design**. Prerequisite: 2214, permission. Acquaints the student with advanced design, presentation, visual awareness and “styles” in lighting design. Includes practical production applications. (Sp)

**2333 Introduction to Technical Production**. Prerequisite: 1114, 1124, and major in drama. Survey of technical production skills in scene technology and costume technology including communications. Shop management and safety. (F)
Drama (DRAM)

2243 Draping and Pattern Drafting I. Prerequisite: 2233, permission of instructor, and sophomore standing. Topics and experiences related to draping skills and pattern drafting for the theatre. Demonstrations and hands-on experience using techniques discussed. Laboratory (F)

2253 Draping and Pattern Drafting II. Prerequisite: 2243. Continuation of 2243. Topics and experiences related to draping skills and pattern drafting for the theatre. Demonstrations and hands-on experience using techniques discussed. Laboratory (Sp)

2323 Stage Movement. Prerequisite: 1523. To give the drama student an understanding of the use of the body as an expressive instrument through development of flexibility, strength and coordination. (F)

2343 History of Costume. Prerequisite: permission. Acquaints the student with the costumes worn by people of dramatically significant periods and countries. (Sp)

2513 Scene Study for the Actor. Prerequisite: 1523, 1643 and permission. Designed to develop the actor's skill through the intensive study and performance of scenes from modern realistic world theatre. Emphasis will be placed upon building a character, milieu study, and scene structure. (F)

2523 Performing Shakespeare. Prerequisite: 2513 and permission. Designed to develop the actor's skill through the intensive study and performance of scenes and monologues from Shakespeare and other verse drama. Emphasis will be placed upon handling language with believable and appropriate characterization. (Sp)

2633 Black Theatre History. Prerequisite: Sophomore standing. Development of black theatre and drama from its beginnings in ancient Africa to the present, with the primary focus on the development of theatre by blacks in America and the contributions of black Americans to the American theatre. Lectures and class discussions, the reading of plays and at least one outside research project. (Irreg.) [IV-WC]

2643 Voice and Diction II. Prerequisite: 1643. Develops the actor's vocal instrument as an integrated and organic function of self and character. Focus on the expressive voice with verse texts. (Sp)

2713 Introduction to Fine Arts. Lectures, illustrated with slides, motion pictures, recordings and readings, surveying the development of the fine arts (architecture, drama, the visual arts and music) from prehistoric times to the present. Background material will include the religious, political and economic conditions and changes affecting the arts. (F) [IV-AF]

3165 Design Projects I. Prerequisite: 1133, 2153, 2223, 3353. Provides the student experience in design for the theatre combining the areas of scene, costume and lighting design. Projects are team designed, supervised and critiqued. Production involvement also required. Laboratory (Sp)

3213 Draping and Pattern Drafting III. Prerequisite: 2243, 2253. Advanced topics and experiences related to draping skills and pattern drafting for the theatre. Demonstrations and hands-on experience using techniques discussed. Laboratory (F)

3221 Costume Construction Techniques. Prerequisite: 2233, 2243, junior standing and permission of instructor. Advanced work in the mechanics and technology of costume builder's draft including practical work in the costume shop. (F)

3233 Tailoring for the Theatre. Prerequisite: 2233, 2243, junior standing and permission of instructor. Intermediate and advanced dressmaking and tailoring techniques. Application of skills in costume. (Sp)

3353 Costume Design and Construction. Prerequisite: 1114 and 2343. Acquaints students with elementary costume design and construction, historical styles, character evaluation and design sources. (F)

3413 Sound Design. Prerequisite: junior standing and permission of instructor. Provides theatre students with the basic skills and concepts for designing sound as support for a theatrical production. This is a design course providing the necessary skills in script analysis, research, style, sound resources, and sound scoring. (Irreg.)

3423 Advanced Materials for Stage Scenery and Properties. Prerequisite: 2233 junior standing and permission of instructor. Application of metals, plastics and non-traditional materials in scenic and properties construction. Emphasis on safety and efficacy. (Sp)

3513 Performing Departures from Realism. Prerequisite: 2523 and juried audition. Acquaints students with performance theory and practice for non-realistic plays and forms, exploring the material through exercises, improvisations and performances of scripted scenes. (F)

3523 Performing New Plays. Prerequisite: 2523 and juried audition. Provides practical experiences for the actor in working with playwrights on new, unpublished plays through performances in scenes, staged readings and through text readings in American acting traditions. (Irreg.)

3613 Directing I. Prerequisite: 2513, 3733 and junior standing; plus one of the following or concurrent enrollment in 2153, 2223, or 3353. Consists of lectures, demonstrations and exercises performed by members of the class. Includes, but is not limited to: stage management, dramatic and theatrical values of a play, play analysis and various techniques of directing. Laboratory (F)

3623 Directing II. Prerequisite: 3613. An intensive study for majors only of the craft and techniques involved in the directing of plays. Special emphasis is placed on script analysis; communication with actors; and practical laboratory work in employing these methods. Scenes from major dramatic works are rehearsed and prepared in class with extensive critique and “in-shop training.” Laboratory (Irreg.)

3643 Voice and Diction III. Prerequisite: 2643. May be repeated; maximum credit six hours. Develops the actor’s vocal instrument as an integrated function of self and character. Work on dialects. (F)

3713 History of the Theatre I. Prerequisite: junior standing and permission. Acquaints the student with the development of drama, theatre and production procedures through the ages from 500 B.C. to 1780. (F) [IV-WC]

3723 History of the Theatre II. Prerequisite: junior standing and permission. Continuation of 3713. Acquaints the student with the development of drama, theatre and production procedures through the ages from 1700 to the present. (Sp) [IV-WC]

3733 Fundamentals of Play Structure and Analysis. Prerequisite: six hours of freshman English. Analysis of the structure of plays of varied types and styles. Includes the reading of approximately 15 plays, with lectures and class discussions. (F)

3813 Stage Management. Prerequisite: sophomore standing. Designed to give theatre students the background and skills to function as a stage manager for the theatre, dance, or opera productions. Introductory course covering the basics of scheduling, auditions, rehearsal procedures, technical rehearsals, and running the show. (Irreg.)

3820 Management Studio I. Prerequisite: junior standing in drama. May be repeated with change of content; maximum credit six hours. Base for various units of study pertaining to the fields of theatre management and stage management. (F, Sp)

3853 Theatre Management. Prerequisite: permission of instructor. A study of the history of theatre management and a current look at trends in the industry. (F)

3870 Management Laboratory. Prerequisite: junior standing in drama and permission of instructor. May be repeated; maximum credit four hours. Practical experience in various areas of theatre and stage management production. (F, Sp)

3910 Advanced Rehearsal and Production. 1 to 2 hours. Prerequisite: one semester of 1911 and junior standing. Open to drama majors only. May be repeated; maximum credit four hours. Study and practice in an administrative or supervisory capacity of every phase of dramatic production work and management; attendance and critical discussion of plays. Kinds of service are given unit evaluation in terms of relative difficulty and time consumption. Laboratory (F, Sp, Su)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Consists of either reading topics or independent study designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

G4050 Company Workshop. 2 to 6 hours. Prerequisite: permission. May be repeated with change of subject matter; maximum credit 12 hours. Study and practice in production, rehearsal and performance as members of a theatre company. Laboratory (Su)

G4113 Scene Painting. Prerequisite: 1114, 1124, 1133. The study and practice of traditional and new scene painting materials and techniques. Individual scene painting problems in the uses of dry pigments, casein, aniline dyes and texture materials. Laboratory (Sp)

G4153 Theatre Architecture. Prerequisite: 2153, 2214 or permission. A study of the history of the physical theatre; existing conditions in present day theatre; and new concepts in production and actor-audience relationship as it affects theatre structure. (Irreg.)

G4163 Lighting Design for Dance. Prerequisite: 1124 and junior standing or permission. Study of the special requirements and techniques for lighting ballet and modern dance productions. Principles of design will be covered through lecture/discussion and video performances or major dance companies.
Projects involve designing of light plots and choreographer/designer communication. (Irreg.)

G4165 Design Projects II. Prerequisite: 3165. A continuation of 3165 on an intermediate level. Production involvement also required. Laboratory (F)

G4175 Design Projects III. Prerequisite: 4165. A continuation of 4165 on an advanced level. Production enrollment also required. Laboratory (Sp)

G4213 Non-Proscenium Lighting. The practices used in lighting arena, thrust and other non-proscenium forms of staging as well as the lighting practices of still photography, cinema and television as they relate to the legitimate stage. (Irreg.)

G4223 Costume Fabrics. Prerequisite: 2233, 2243, senior standing and permission of instructor. Comprehensive study of fabric materials and application to theatrical costume construction. (F)

G4233 Costume Crafts for Theatre. Prerequisite: 2233, 2243, 2253, senior standing and permission of instructor. Study of and work with special techniques that employ dying and painting of fabrics and other materials used in costume construction; millinery (construction of headgear), wig-making and the construction of three-dimensional costume elements such as padding to alter the actor’s physical appearance. (Sp)

G4243 Costume Shop Management. Prerequisite: 2233, senior standing and permission of instructor. Instruction and experience in shop management including budgeting of resources, time management, personnel, and organization. (Sp)

G4253 History of Décor. Prerequisite: majors only, junior standing and permission of instructor. Survey of interior and exterior decoration with particular emphasis on theatrical application. (F)

G4263 Advanced Crafts for the Theatre. Prerequisite: 2233, junior standing and permission of instructor. Topics in theatrical uses of crafts such as upholstery, drapery, mold-making, sculpting and casting. (Sp)

G4321 Advanced Stage Movement. Prerequisite: 2323. Designed to equip the student with an extended awareness and further control of the body through the advanced development of strength, flexibility, coordination, and expressiveness. Also, familiarize the student with specific skills used in theatre movement training which may include: masking, Commedia dell’Arte, period styles, circuses skills, and/or stage combat. (Irreg.)

G4513 The Audition Process. Prerequisite: 2523 and juried audition. Teaches the audition process including selection and preparation of audition pieces, preparation of photos and resumes, training for interviews, preparation for advanced training programs and an introduction to issues unique to the performance profession. (F)

G4523 Acting for the Camera. Prerequisite: 2523 and jury auditions. Designed to instruct the student in the requirements, discipline, and basic techniques of working on camera as a professional actor, with an appreciation of the full process of creating a film or television program. All work by the student will be videotaped then subsequently replayed with a critique by the instructor. (Sp)

G463 Advanced Voice: Extended Usage. Prerequisite: juried auditions. This work will focus on developing the voice for extended usage as in combat, laughing, crying, shouting, screaming, topping extraneous noise, and projecting in large or outdoor venues. The foundations of breath, resonance, and the free and open vocal tract will be reviewed. Anatomy and care of the voice will also be stressed. Current theories of voice training will be explored through reading and discussion. The performance of monologues and short scenes will be used to practice skills. (Sp)

G472 American Theatre History. Prerequisite: 3733. Approaches the history of American theatre topically by exploring the interactions between the theatre and the social and cultural context in which it has developed and flourished from colonial times to the present. (Irreg.)

G473 Dramaturgy Seminar. Prerequisite: 3733. Designed to train students to do dramaturgy and literary management as they are currently practiced in American theatre. Develops students' skills in theatre research, writing and script analysis which may be applied to the functions of a dramaturgy or other artist in the field. (Irreg.)

G4743 The Modern Theatre. Prerequisite: 3713 and 3733 or permission. A survey of the modern western theatre from 1870 to the present emphasizing those departures in playwriting and scenography from the realistic mainstream. (Irreg.) (IVWC)

G4773 Playwriting I. Prerequisite: permission. Study and practice in playwriting. acquaints the student with dramatic structure and technical limitations placed upon material written for dramatic production and provides experience in writing for the stage. (F, Sp)

G4783 Playwriting II. Prerequisite: permission. Study and practice in playwriting. acquaints the student with dramatic structure and technical limitations placed upon material written for dramatic production and provides experience in writing for the stage. (F, Sp)

4803 Capstone Experience. Prerequisite: permission of instructor. Advanced, individual project which demonstrates mastery of skills and knowledge in student’s area of interest, selected under advisement and guided by appropriate faculty members. Take in the senior year; capstone requires written document, either explanatory or evaluative, of the entire capstone project in appropriate research paper format. (F, Sp, Su) (V)

4810 Performance Practicum. 1 to 2 hours. Prerequisite: permission. May be repeated; maximum credit ten hours. Study and practice in rehearsal and performance as a cast member of OU Theatre. (F, Sp)

4820 Management Studio II. Prerequisite: 3820 and senior standing in drama. May be repeated with change of content; maximum credit six hours. Bas for various units of study pertaining to the fields of theatre management and stage management. (F, Sp)

4833 Advanced Stage Management. Prerequisite: 3813 and major in drama. Advanced studies of stage management and production management techniques in theatre, dance, musical theatre, and opera. Topics covered include organization, communication, interpersonal relations, the production process, rehearsal and performance procedures and documentation. (Irreg.)

4843 Producing. Prerequisite: junior standing and permission of instructor. Introduces the process and practice of theatrical producing. Includes the history of producing, as well as contemporary approaches in both the not-for-profit and commercial venues. Research papers, reports and experience with university productions are required. (Sp)

4853 Advanced Theatre Management. Prerequisite: 4843 and major in drama. An evaluative study of specific management applications in the field of theatre. (Sp)

4863 Theatre Marketing. Prerequisite: permission of instructor. A study of the methods and practices in marketing the arts in America. (Irreg.)

4873 Management Practicum. Prerequisite: 3871 and major in drama. An intensive laboratory experience in a specific area of theatre or stage management. (F, Sp)

4900 Professional Semester. Prerequisite: junior or senior standing, Internship with a non-academic theatre (or theatre-related) organization which will augment the students’ academic experiences. (F, Sp, Su)

4913 Theatre Career Development. Prerequisite: senior standing and permission of instructor. Acquaint student with myriad organizations, resources and offices available so they can be better prepared to make a successful transition to a professional career. (F)

4940 Special Topics Theatre. 2 to 6 hours. Prerequisite: junior standing or permission of instructor. For majors only. May be repeated with change of content; maximum credit six hours. Varying topics in the study and practice of theatre and drama not covered in regularly scheduled courses or new developments within the area of expertise. (Irreg.)

4990 Special Studies. 2 to 6 hours. Prerequisite: permission. May be repeated with change of subject matter; maximum credit 12 hours. A special creative or research project course on an advanced level in any phase of the theatre or drama adapted to the individual student. (F, Sp, Su)

G5013 Introduction to Graduate Study. Prerequisite: graduate standing. Research methods and various types of critical expression and scholarly investigation. (F)

G5050 Company Workshop for Graduate Students. 2 to 6 hours. Prerequisite: permission. May be repeated; maximum credit eighteen hours. Study and practice in production, rehearsal and performances as members of a theatre company. Laboratory (Su)

G5112 Readings in Design Technology. Prerequisite: graduate standing. Directed readings to provide knowledge of literature in the field. Titles selected from general area of design in the theatre with other titles pertinent to specific area of interest of the student. (F, Sp, Su)

G5142 Design Apprenticeship. Prerequisite: graduate standing and permission. Repeat one time; area may be changed on repetition. Provides professional practice for the student. Student assists designer in area of scenery, lighting or costumes in the research, drafting, rendering, model building, material selection, etc. as applicable in practical production situations. Laboratory (F, Sp, Su)

G5163 Technical Production Practice. Prerequisite: 12 hours of drama, including a course in stagecraft. Study in the theory and practice of technical production to render the student capable of assuming the full responsibility for staging a full-length play each semester. (Irreg.)

G5165 Design Studio. Prerequisite: graduate standing and permission. To be taken three times for total of 15 credit hours. Not open for credit toward M.A. degree. The design studio sequence provides the graduate student with
Courses offered through the Advanced Programs format have a two-hour credit award with a one-hour additional independent study option, and the course numbers are listed on the transcript as ending with 2 and 1. To gain the full equivalent of the content as the comparable course listed on campus, both the two-hour and one-hour enrollment must be completed.

Economics (ECON)

1003 The Economic Way of Thinking. The fundamental framework economists use to analyze problems. Explores the ways in which the private and public sectors of the economy interact to create social wealth. Topics include market maximization of social wealth, market imperfections, and the role of government intervention. Majors may not use these courses for major credit. (Irreg.)

1113 Principles of Economics—Macro. The functioning and current problems of the aggregate economy; determination and analysis of national income, employment, inflation and stabilization; money and banking, monetary and fiscal policy; and aspects of international interdependence. Laboratory (F, Sp, Su) [III-SS]

1123 Principles of Economics—Micro. Goals, incentives and allocation of resources resulting from economic behavior with applications and illustrations from current issues: operation of markets for goods, services and factors of production; the behavior of firms and industries in different types of competition and income distribution. Laboratory (F, Sp, Su) [III-SS]

2523 Health Economics and Health Promotion. Analyze basic health policy issues through the use of basic economic principles. Topics included will be the role of taxation and regulation in promotion public health, health promotion program evaluation, and health care reform. (Sp)

2843 Elements of Statistics. Prerequisite: Mathematics 1503 or equivalent. Basic statistical techniques emphasizing business and economic applications. Topics covered include data summary techniques, elementary probability theory, estimation, hypothesis testing, simple regression, time-series and index numbers. Laboratory (F, Sp, Su) [I-M]

Unless otherwise noted, the prerequisite for economics courses numbered 3000-3999 is nine hours of economics, or 1113 and 1123 and six advanced hours of another social science or senior standing.

3003 Prices and Information. Prerequisite: junior standing. Examines how markets direct private enterprises to produce social wealth. Topics include how private markets generate wealth, when unregulated private markets are likely to fail to maximize social wealth, and under what conditions government interventions are likely to improve market outcomes. (Irreg.)

3133 Intermediate Price Theory. Fundamental economic concepts and principles; value and distribution theories under conditions of competition, monopoly and monopolistic competition. Appraisal of modern problems in terms of these theories. (F, Sp) [III-SS]

3133 Intermediate Macroeconomic Theory. National income concepts; aggregate demand by household, business, government, and foreign sectors; determination of national income, interest rate, price, output, and employment levels. (F, Sp, Su)

3213 Environmental Economics. Prerequisite: 1123. Economic approach to environmental protection; analysis focuses on property rights and externalities. Examines strategies for addressing externalities including command-and-control regulation, emissions taxes, and tradable discharge permits. Topics include air pollution, water pollution, waste disposal and recycling, and endangered species protection. (Irreg.)

3233 Information Technology and the Economy. Prerequisite: 1123. Examines the role of information and technology in the economy. Topics will include the importance of network externalities, the growth of e-commerce, and the economic analysis of standards and protocols. (Irreg.)

3513 Labor Problems. Problems of labor in an industrial society; wages, hours, working conditions, child labor. Conflicts between management and labor. (F)

3G33 Economics of Collective Bargaining. Economic effects of collective bargaining contracts on wages, employment production and prices. Specific contracts studied. (F)

3613 International Trade Theory and Problems. Prerequisite: 1113, 1123. Benefits of trade; determination of the direction and level of trade, commercial policy and trade barriers, international trade problems and issues. (F, Sp)

3633 International Finance Theory and Problems. Prerequisite: 1113, 1123. Effects of international trade on employment, inflation, the exchange rate, effects of devaluation, types of international monetary arrangements, effects of foreign transfers, open economy macroeconomic policy. (F, Sp)

3G731 Governmental Relations to Business. Analysis of economic aspects of government regulation and direction of business enterprise; controls affecting managerial discretion in the determination of prices and other basic business policies. (F, Sp, Su) [III-SS]

3880 Directed Readings. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated; maximum credit six hours. Readings will consist of topics designated by the instructor in keeping with student’s specialization within major program. Topics will cover materials not usually presented in regular courses. (F, Sp, Su)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to the Honors Program. May be repeated; maximum credit six hours. Consists of topics
designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su) 3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content deals with concepts not usually presented in regular coursework. (Sp) 3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the graduate honors candidate to work at a special project in the student’s field. (F, Sp, Su) 4313 Industrial Organization. Prerequisite: 2113, 2123, 2843 and permission of instructor. Examines the market structure, conduct and performance of various industries. Topics include: theory and empirical results regarding structure, conduct and performance; the structure of U.S. industry versus other countries; recent developments; and antitrust policy. (Irreg.) 4335 Public Finance. Prerequisite: Finance 3403 or permission. Public expenditures, their nature, cause of the increase, and classification; sources of public revenue; methods of distributing the tax burdens; public debts and debt management; introduction to fiscal theory and policy. (F, Sp) 4363 Market Process Economics (Slashlisted with 5363). Prerequisite: 3113 or permission of instructor. Examines the "Austrian" economics market process theories based on the work of Ludwig von Mises and Friedrich Hayek. Topics include disequilibrium view of markets, the nature of economic knowledge, the role of entrepreneurship, and the critique of central planning. No student may earn credit for both 4363 and 5363. (Irreg.) 4373 Regulation and Public Utility Economics. Prerequisite: senior standing. Application of economic theory and techniques to regulated industries and public utilities. Topics include history and theoretical basis for regulation, exit and entry restrictions, theory versus empirical results, regulatory methods and principles, rate of return regulation, and public ownership. (F, Sp) 4453 Urban Economics. Prerequisite: 3113. Study of economic models of urban location, including firm location and residential location models. Public policy topics of urban taxation, residential housing discrimination, urban renewal, etc. will also be discussed from an economic perspective. (Irreg.) 4471 Latin American Economic Development. Prerequisite: 1113 and 1123. Examine the major characteristics of Latin American economic development, from the evolution of economic policy in the region since independence, to the recent problems with industrialization policy, public debts and debt management; introduction to fiscal theory and policy. (F, Sp) 4482 Introduction to Comparative Economic Systems. Prerequisite: 3113, 3133 or permission of instructor. Concerned principally with a comparative economic and institutional analysis of past and present systems. (Sp) 4853 World Economic Development (Slashlisted with 5853). The economics of the developing nations; a review and analysis of common problems and issues. No student may earn credit for both 4853 and 5853. 4G473 Economics and Law. Prerequisite: 3113. This course is designed to exemplify the flexibility and relevance of microeconomic principles as they apply to various areas within the common law and to familiarize students with economic model-building in a manner consistent with the judicial process and "real-world" legal problems. (Sp) 4983 Economics as Social Science. Prerequisite: 1113, 1123, 2843, 3113, 3133 or permission of instructor. Examination of selected topics in various subdisciplines within economics e.g., international trade and finance, econometrics, energy economics, public finance, labor economics, economic history and development, etc. (V) Unless otherwise noted, the prerequisite for all courses numbered 5000 and above is graduate standing and permission of instructor. 5G023 Statistics for Decision Making. Prerequisite: admission to Master of Business Administration program or permission of instructor. Covers basic probability density functions, the parametric estimating techniques of linear multivariate regression analysis and the elements of statistical decision making under uncertainty. (F, Sp, Su) 5G033 Managerial Economics I. Prerequisite: graduate standing. Practical applications of economic theory and techniques to business problems. Topics include: demand theory and estimation; production and cost theory; empirical cost analysis; pricing practices, market structure and antitrust policy; corporate strategies for dealing with risk; long-term investment decisions with emphasis on plant size, technological change and investment requirements. (F, Sp) 5G043 Managerial Economics II. Prerequisite: 5033, 5073. Emphasizes current topics in several areas including: regulation, business and government, antitrust economics, the economics of intellectual capital markets, and the economics of technological change. Strategies for management will also be discussed. (Irreg.) 5G063 Quantitative Economic Methods. Prerequisite: permission of instructor. Covers the mathematical techniques used by Ph.D-level economics courses. All MA (Theory) and Ph.D. students are required to take this course or test out of it. (F) 5G073 Contemporary Economic Methods and Analysis. A review of contemporary economic methodology and theory and their application to the analysis of macroeconomic questions and problems in the American economy. Techniques of economic forecasting will also be covered. (F, Sp, Su) 5G123 Advanced Price and Welfare Theory. Prerequisite: 3113 or equivalent, senior standing or permission. An intensive study of the static and dynamic welfare and efficiency properties of the price and market system method of social organization. Topics include: theory of markets, game theory, capital theory and intertemporal equilibrium, general equilibrium and employment, welfare theory. (Sp) 5G153 Mathematical Economics I. Prerequisite: 2843, 3113, 3133. Investigation of several important models of economic activity. Emphasis on methods of analysis and interpretation involving construction of mathematical models reflecting the economic substance of these models. Implications for economic policy considered. 5G163 Advanced Macroeconomic and Growth Theory. Prerequisite: 3113, 3133. Comparison of static macroeconomic systems; introduction to dynamic macroeconomic systems; post-Keynesian and modern theories of economic growth. (F) 5G173 Urban and Regional Analysis (Crosslisted with Regional and City Planning 5173). Prerequisite: Regional and City Planning 5113 or equivalent. A lecture-seminar-problems-oriented course designed to acquaint the student with the scientific techniques used to analyze urban and regional social, economic, political and environmental problems. Oriented to reflect requirements for studies leading to the preparation of goals, policies, and plans for urban and regional scale development. (Sp) 5G213 Advanced Econometrics. Prerequisite: graduate standing. Measurement of micro- and macro-economic relations, both static and dynamic. Comparative statics and dynamics; practical use of inference from non-experimental data. Identification and estimation problems. (Irreg.) 5G243 Econometrics II. Prerequisite: 5213. Systems of equations, alternative methods of estimation, including indirect least squares, limited information, two- and three-stage least squares, full information maximum likelihood, formulation and interpretation of econometric models. (F) 5G273 Survey of International Economics. Prerequisite: graduate standing. Examines topics in international trade and finance including and evaluation of economic policies and international institutions. Public policy topics such as the impact of tariffs, quotas and exchange rates will be discussed. (Irreg.) 5G313 Advanced Industrial Organization. Prerequisite: graduate standing. Examines the market structure, conduct and performance of various industries. Topics include: theory and empirical results regarding structure, conduct and performance; the structure of U.S. industry versus other countries; recent developments; and antitrust policy. (Irreg.) 5G353 Public Finance II. Prerequisite: 4353 or permission of instructor. Teach advanced principles of public finance. The chief topics are market failure and public goods, public choice and principles of expenditure analysis. 5G363 Market Process Economics (Slashlisted with 4363). Prerequisite: graduate standing. Examines the "Austrian" economics market process theories based on the work of Ludwig von Mises and Friedrich Hayek. Topics include
dis-equilibrium view of markets, the nature of economic knowledge, the role of entrepreneurship, and the critique of central planning. No student may earn credit for both 4363 and S 363. (Irreg.)

G5373 Advanced Regulation and Public Utility Economics. Prerequisite: graduate standing. Application of economic theory and techniques to regulated industries and public utilities. Topics include history and theoretical basis for regulation, exit and entry restrictions, theory versus empirical results, regulatory methods and principles, rate of return regulation, and public ownership. (F)

G5453 Advanced Urban Economics. Prerequisite: graduate standing. Study of economic models of urban location, including firm location and residential location models. Public policy topics of urban taxation, residential housing discrimination, urban renewal, etc. will also be discussed from an economic perspective. (Irreg.)

G5613 International Economics—Trade. Prerequisite: 3613 and Mathematics 1743 or permission of instructor. Causes and effects of international trade; gain from trade; theory of tariff and effective protection; economic growth and trade; intermediate products; optimal trade policies; factor market imperfections; theory of integration. (Sp)

G5633 International Economics—Finance. Prerequisite: 3613 and Mathematics 1743 or permission of instructor. Foreign exchange rates; balance of payments; alternative international monetary systems; international reserves. (F)

G5733 Macro/Microeconomics for MBA's. Covers basic macro- and microeconomics needed for MBA students including international economic issues. (Sp)

G5853 World Economic Development (Slashlisted with 4853; Crosslisted with Regional and City Planning 5853). Prerequisite: graduate standing. The economics of the developing nations; a review and analysis of common problems and issues. No student may earn credit for both 4853 and 5853. (Irreg.)

G5933 Economic Analysis of Energy Markets. Prerequisite: 5033 or equivalent; graduate standing. Economic analysis of the competitive relationships in the oil, natural gas, coal and electricity markets. Special attention is given to the determinants of price and the influence of price upon the economic feasibility of energy projects. The structure and pricing of international crude oil markets. Federal and state legislative and regulatory policy; their influence upon energy production and prices. (F)

G5940 Research in Economic Problems. 1 to 3 hours. May be repeated; maximum credit six hours. (F, Sp, Su)

G5960 Readings in Selected Fields of Economics. 1 to 4 hours. May be repeated; maximum graduate credit eight hours. The only passing grade given in this course is the neutral grade of S. Directed readings under staff supervision for advanced students. A comprehensive report or examination is required. (F, Sp, Su)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Special Studies. 1 to 3 hours. May be repeated; credit with change of topic; maximum credit 12 hours. Advanced studies in various areas of economics. Given under stated titles determined each semester by the instructor involved. (F, Sp)

G6103 History of Economic Analysis I. Prerequisite: 5123, 5163, permission of instructor. Preclassical and classical economic analysis, with emphasis chronologically on particular authors beginning with Plato. A study of their points of view and their relevance to contemporary analysis and problems. (Sp)

G6123 Planning and Policy Analysis: Advanced Methods. Prerequisite: 5123. Covers advanced data analysis techniques useful for performing policy analysis. Focus on: structural regional modeling, program evaluation and experimental design. Goal is to help students develop a broad understanding of the methodological and empirical issues needed to evaluate public policy programs. (Irreg.)

G6213 Seminar in Price and Welfare Theory. Prerequisite: 5123 or equivalent, graduate standing. Current theoretical issues and research developments are explored. Attention is given to externalities, social welfare functions, market and nonmarket choice mechanisms, capital theory and analysis of intertemporal adjustments, general equilibrium under dynamic growth conditions. (F)

G6313 Seminar in Macro and Growth Theory. Prerequisite: 5163. Seminar in macroeconomic and growth theory. Detailed analysis of static and dynamic macroeconomic systems; macrostatic and macrodynamic policy issue. (Irreg.)

G6333 Seminar in Industrial Organization. Prerequisite: graduate standing or permission of instructor. Survey of recent industrial organization, public utility and regulation literature.
3960 Honors Reading. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides students with the opportunity to develop an appropriate body of reading materials on topics not covered in detail in routine coursework. Students will be obliged to assume the primary initiative in selecting the topic, compiling the bibliography and completing the reading, and will report their progress in weekly sessions to their instructor. Credit will be given only after an intensive oral examination.

3970 Honors Seminar. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Covers variable subjects in education with in-depth studies of issues not covered in the standard course offerings.

3980 Honors Research. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for honors students to work on a special project under the guidance of a professor in the student’s major area of study.

4960 Directed Readings in Education. 1 to 4 hours. Prerequisite: good standing in University, permission of instructor and dean. May be repeated; maximum credit four hours. Designated for upper-division students preparing to teach who need the opportunity to study a specific problem in greater depth than formal course content permits.

4980 Practicum in Education. 1 to 3 hours. Prerequisite: nine hours of education courses. Provides field-type experience under faculty supervision and is designed to introduce the student to the practical application of theory within an environment in which professional practice takes place.

4990 Special Problems in Education. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of title and subject. Variable as to subject and credit for areas of specialty and/or interest not otherwise provided in the standard offerings of courses.

G5910 Practicum in Education-Master's. 1 to 4 hours. Prerequisite: graduate standing, permission of instructor and dean. May be repeated; maximum credit six hours. Variable as to title and subject profession. Provides field-type experience under faculty supervision and is designed to introduce the student to the practical application of theory within an environment in which professional practice takes place. Seminar experience is to be included.

G5920 Internship in Education-Master's. 1 to 6 hours. Prerequisite: 5910, permission of instructor. May be repeated; maximum credit six hours. Variable as to title and subject profession. Available to master's degree programs specifically requiring internship in addition to thirty-two hours of other coursework as part of the degree. Introduces the student to the profession under the supervision of a practitioner whose credentials are equal to those of the graduate faculty.

G5940 Field Studies in Education. 1 to 4 hours. Prerequisite: twelve hours of education. May be repeated with change of subject matter; maximum credit eight hours. Practical problems in education as defined by members of the classes. Typical topics: defining educational objectives, relating school programs to established objectives; developing teaching-learning aids, organization for participation in developing and evaluating instructional programs, using community resources for learning, improving evaluation procedure.

G5960 Directed Readings. 1 to 4 hours. Prerequisite: twelve hours of education, approval of instructor, adviser and dean. May be repeated; maximum undergraduate credit eight hours; maximum graduate credit four hours.

G5972 Pre-Master's Seminar. Prerequisite: twelve hours of education, graduate standing, permission of instructor. May be repeated; maximum credit four hours. Enrollment limited to students who are in early post-baccalaureate curricula.

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours.

G6902 Pre-Doctoral Seminar. Prerequisite: graduate standing. An introduction to advanced graduate scholarship in education, including a review of advanced level, developed and issues in specific fields of higher education.

G6910 Practicum in Education-Doctoral. 1 to 6 hours. Prerequisite: admission to doctoral program, permission of instructor. May be repeated; maximum credit six hours. Variable as to title and subject profession. An advanced practicum for post-master's level students only. The object is to provide professional experience under faculty supervision in fields requiring a high degree of professional skill. Seminar experience is to be included.

G6920 Internship in Education-Doctoral. 1 to 6 hours. Prerequisite: written permission of the instructor. May be repeated; maximum credit twelve hours. Variable as to title and subject profession. An advanced internship for post-master's level students only. The object of the internship is to cultivate within the student a high degree of proficiency and professional independence. Field supervision is by a practitioner whose credentials are equal to those of the graduate faculty.

G6930 Intensive Studies in Education. 1 to 6 hours. Prerequisite: twelve hours of education and permission of instructor. Repeatable with change of title and subject. Opportunity offered for professional educators and others interested in education, cooperatively, to seek solutions to educational problems. Organized groups work in curriculum, guidance, instruction, administration and supervision. Competent leadership and expert consultant service provided.

G6970 Post-Master's Seminar. 2 to 4 hours. Prerequisite: master's degree, twenty-four hours of education, permission of instructor. May be repeated with change of subject matter; maximum credit twelve hours. Enrollment limited to students who hold the master's degree. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. Maximum of fifteen hours credit for the Ed.D. and thirty hours for the Ph.D.

G6990 Individual Study in Education. 1 to 4 hours. Prerequisite: twelve hours of education, graduate standing, permission of the instructor. May be repeated with change of subject matter; maximum credit eight hours. For advanced graduate students who need to study some problem or area not adequately covered in the organized courses, under the direction of a staff member in whose area of specialization the problem lies.

**Adult and Higher Education (EDAH)**

2963 R.A. Training. Introduces various theories and skills that aid the student in the performance of the duties of a resident advisor. Areas of study include student development theory, community development, programming, peer counseling, and policy enforcement. The class will review current issues confronting college students. (F, Sp)

4993 R.A. Training Special Problems in Education. Prerequisite: junior standing. Introduces various theories and skills that aid the student in the performance of the duties of a resident advisor. Areas of study include student development theory, community development, programming, peer counseling, and policy enforcement. The class will review current issues confronting college students. Students will also be involved in University community-building programs and special events which relate to the role of resident advisor. (F, Sp)

G5013 The Adult Learner. Prerequisite: graduate standing. Course content includes: (a) recent history; (b) social, technological and economic factors associated with changes in educational philosophy with consequences for lifelong learning; (c) trend data on adult enrollments by socio-economic, racial, ethnic and other factors; (d) major providers; (e) research and issues concerning adult learning ability, adult development, stresses upon the adult learner, teaching adults, etc. (F)

G5023 Administration of Adult and Higher Education. Prerequisite: graduate standing. Organization and administration of adult and higher education from legislative, legal, structural-functional, power, political, bureaucratic and social perspectives. Topics considered include: governance, central office organization, administrative position analysis, faculty organization, faculty participation in policy formation and decision making, academic freedom, goals analysis, budgetary policies and methods, and decision strategies. (F)

G5033 Critical Literature in Adult and Higher Education (Crosslisted with EDFN 5033). Prerequisite: graduate standing. Explores twentieth-century ideas and issues in adult and higher education. The majority of the literature and discussion concern the university. (F)

G5043 Introduction to Research in Adult and Higher Education. Prerequisite: graduate standing. Recommend specific prior enrollment—see adviser. An introduction to data collection and analysis, research methods (experimental, quasi-experimental, qualitative), and statistics used in adult and higher education. (F, Sp, Su)

G5103 Instructional Strategies in Adult and Higher Education. Prerequisite: graduate standing. Recommends specific prior enrollment—see adviser. Explores twentieth-century ideas and issues in adult and higher education. The majority of the literature and discussion concern the university. (F)

G5123 Decision-Making in Adult and Higher Education (Crosslisted with EDFN 5123). Prerequisite: graduate standing. Provide students with an understanding of various forces which influence the process of decision-making in adult and higher education, as well as provide an opportunity to examine how such decisions can be reached and implemented. The student will examine realistic examples of decision-making in such areas as budgeting, trustee relations, tenure decisions, faculty development, and curriculum. (F, Sp)

G5133 The American Community Junior College. Prerequisite: graduate standing. A study of its purposes, functions, curriculum, organization and administration; exploring this uniquely American institution as an emerging factor and significant element in the structure of higher education in America today. (Sp)
G5143 Leadership Development in Adult and Higher Education. 
Prerequisite: graduate standing. Apply concepts from the behavioral and social sciences to the development of techniques and strategies specific to leadership development in adult and higher education. (Sp)

G5153 Legal Aspects of Higher Education. Prerequisite: graduate standing. Survey of principles, legislation, and court rulings in such areas as employment, alternative action, dismissal, contracts, tenure, civil rights, due process, student rights, and other issues of concern to higher education administrators. (F)

G5213 Twentieth-Century American Higher Education. Prerequisite: graduate standing or permission of instructor. The history of American higher education during the twentieth century, with an examination of the major issues which have shaped, and are shaping, the development of American colleges and universities. (Sp)

G5223 Student Personnel Services in Higher Education. Prerequisite: graduate standing. The need, function, organization and administration of student personnel services in institutions of higher learning. Critical review of trends and practices in student personnel programs in colleges and universities. Designed for students majoring in guidance and counseling and higher education. (F)

G5233 Research on the College Student. Prerequisite: graduate standing. The primary aim is to introduce students to the history of college students, research methodologies employed in research on college students, and theoretical concepts and research findings related to student characteristics, college environments, choice, student development, attrition, persistence, cognitive and affective development and general outcomes. An understanding and knowledge of these topics is considered a precursor for those interested in student personnel administration and/or in advanced research on college students. (Sp)

G5243 Financial Management in Higher Education. Prerequisite: graduate standing. Students will be introduced to the following topics: administrative organization function and structure; financial management of sponsored programs (grants and contracts); fund accounting and basic financial statements; state coordination policies and procedures; in state budgeting concepts and techniques; cost analysis and comparisons. (Sp)

G5253 Institutional Research in Higher Education. Prerequisite: graduate standing. Recommend specific prior enrollment-adviser. Covers the roles and functions of institutional research, student information systems, faculty and staff analysis, facilities analysis, capital and financial analysis, environmental scanning, assessment studies, program review, student outcomes studies, and quality assessment. (F)

G5263 Planning in Higher Education. Prerequisite: graduate standing. Recommend specific prior enrollment-adviser. Covers concepts, practices, issues and problems related to planning in higher education. (F)

G5273 Athletics in Higher Education (Crosslisted with Human Relations 5213). Prerequisite: graduate standing. Provides students with an understanding of the history, structure, and administration of collegiate athletics, as well as an opportunity to discuss a wide variety of related contemporary issues. (Irreg.)

G5303 Foundations of Adult Education. Prerequisite: graduate standing. History of adult education; societal basis of adult education; relevance of adult education to other disciplines; organization and administration of adult education; the structure and function of adult education systems; and trends and concepts of adult education. (F)

G5333 Program Planning for the Adult Learner. Prerequisite: graduate standing. Recommend specific prior enrollment-adviser. Designed to develop an understanding of institutional roles and institutional differences; a knowledge of the principles of program planning in relation to the delivery of adult education. Reviews the elements of program planning to include needs assessment, program objectives, program design and delivery, and evaluation. (F)

G5343 Gerontological Education. Prerequisite: graduate standing. Prepares students to respond effectively to the learning needs of the elderly and those professions who serve the elderly.

G5403 Instructional Telecommunications. Prerequisite: graduate standing. Introduces the student to the use of telecommunications in the delivery of educational programming and includes a survey of the attributes of the predominant technologies, how these relate to the design of instruction, and the issues surrounding the management and organization of instructional telecommunications systems. (F)

G5413 Design and Delivery of Distance Education Programs. Prerequisite: graduate standing. Designed to prepare student to design instruction for distance learning systems. Topics include the distance learner, facilitating learning at a distance, instructional design for distance learning systems, and assessment of learning at a distance. (Sp)

G5423 Computer Mediated Communications in Education (Crosslisted with EPT 5423). Prerequisite: graduate standing. Designed to prepare students with knowledge, skills, and tools in the area of Computer-Mediated Communication, focusing specifically on web-based and web-supported instruction. Provides learners with both theoretical understanding of and practical skills for using the Internet in instructional settings. (Sp)

G5503 Introduction to Training and Development. Prerequisite: graduate standing. Designed for individuals who are expected to be responsible for some development of training and development in agencies outside of public education. Participants will investigate the nature and function of training and development in business, industry, government and voluntary organizations, drawing upon recent adult education theory and research. (F)

G5513 Management and Administration of the Training Function. Prerequisite: graduate standing. This course is designed for those preparing for or having oversight responsibilities in the training and development function. Topics will include the management function, staffing, ensuring the quality of training, legal issues, marketing and financial management. (Irreg.)

G5523 Survey of HRD Competencies. Prerequisite: graduate standing. Designed to build skills necessary to function as a human resource development manager. The topics covered include: negotiation skills, team building, group process skills, visioning, delegation skills, cost benefit analysis, job analysis, evaluation skills, relationship building skills, feedback skills, coaching, project management related skills, subject matter specialist and consulting, and listening and questioning skills. (F)

G5533 Advanced Training and Development Functions. Prerequisite: graduate standing. Enables participants to appropriately apply in their organizations new and existing state-of-the-art techniques in human resource development/training and development; recognize how future trends in linking strategy and training and development may impact their organization; assess current human resource development practices and formulate plans for their improvement; specify human resource issues and problem areas and identify alternative solutions to facilitate training and development processes. (Sp)

G6143 Theory and Research in Training and Development. Prerequisite: graduate standing. An overview of research in the field of training and development. The activities include the review of research journals and dissertations and interviewing of current and active training and development researchers. Bibliographies and computerized databases will be sought and reviewed. Procedures of detecting bias and research mistakes will be covered.

G6213 Theory and Practice of Continuing Higher Education. Prerequisite: graduate standing. Discusses the development of continuing higher education programs; the role of distance education as a discipline and examines the role of distance education in the United States from the eighteenth century. Examines the range of institutions, kinds of programs, emerging issues, organizational structure, budgeting, administration and relationship to the larger institution in which continuing higher education operates.

G6223 Theory and Practice of Continuing Professional Education. Prerequisite: graduate standing. An examination and explanation of the agencies, goals, institutions, issues, outcomes, purposes and processes of the continuing education of professionals.

Early Childhood Education (EDEC)

1203 Contemporary Parenting. An introductory course covering basic principles of child management. Parenting skills and guidance techniques that foster self-worth in children are stressed as are positive and effective methods of discipline and control.

2203 Creative Expression for Early Childhood Programs. Prerequisite: admission to Teacher Education program. Characteristics and processes of creativity as expressed by children from age two to eight are reviewed. Planning and production of materials that enhance creativity in self-expressive thought and play are emphasized. (Sp)

3001 Mentoring I. Prerequisite: admission to Teacher Education program. Fosters professional development of early childhood education students and facilitates their successful participation in the Teacher Education program. Professional opportunities in the field and professional organizations will be identified. Students will continue development of their portfolio documenting their development in the Teacher Education program. (F)

3211 Fundamentals I Laboratory. Corequisite: 3213. Designed to provide students with the opportunity to implement what they are learning in other courses as they interact with children in a classroom setting. Students will carry
out assignments during this lab that have been assigned in EDEC 3213 as well as other specialization classes. (F)

3213 Fundamentals of Instruction of the Preschool Child, Part I: Social/Emotional Skills. Prerequisite: admission to Teacher Education program, and 2203; corequisite: 3001, 3211 and EDLT 3183. Links theory and research to preschool teaching. Includes materials on ways to foster social and emotional development and enhance creativity in children. Effective methods of discipline and a multifaceted approach to curriculum are emphasized. Includes weekly participation in an approved preschool program. (F)

3221 Fundamentals II Laboratory. Corequisite: 3223. Designed to provide students with the opportunity to implement what they are learning in other courses as they interact with children in a classroom setting. Students will carry out assignments during this lab that have been assigned in EDEC 3223 as well as other specialization classes. (Sp)

3223 Fundamentals of Instruction of the Preschool Child, Part II: Language and Cognitive Processes. Prerequisite: 3213; corequisite: 3221 and EDLT 4303; Links theory and research to practical preschool teaching. The development of mental ability and reasoning skills is stressed as are effective strategies for encouraging language development and prereading skills. Special attention is given to the needs of children from low income families. Weekly participation in an approved preschool program is required. (Sp)

3233 Teacher, Parent, Child Relationships in Early Childhood Programs. Prerequisite: 3213 or permission of instructor. Includes techniques for parent conferencing and referrals, planning and presenting effective parent education meetings, parent involvement in the classroom and experience in making home visits. Focuses on family needs when children are aged two to eight. To be taken concurrently with 3223. (Sp)

3413 Early Childhood Development. Social, physical and cognitive influences on behavior during the preschool years are described and explained. The developmental implications of changing from caregiver to peer relationships are examined. (Sp)

4001 Mentoring II. Prerequisite: 3001. Fosters continued professional development of early childhood education majors and facilitates their successful participation in the Teacher Education program. Professional development opportunities outside the classroom are discussed. Students continue work on a portfolio showing their continued development as future teachers. (F)

4121 Curriculum Laboratory. Corequisite: 4123. Designed to provide students with the opportunity to implement what they are learning in other courses as they interact with children in a classroom setting. Students will carry out assignments during this lab that have been assigned in EDEC 4123 as well as other specialization classes. (F)

4123 Curriculum of Early Childhood Education. Prerequisite: 3223 and EPT 3483; corequisite: 4001 and 4121. A comprehensive study of the scope of early childhood education with specific concern for curriculum foundation and organization. (F)

4203 Program Planning and Leadership in Early Childhood Programs. Prerequisite: 3223. Focuses on administrative aspects of early childhood programs outside the realm of the elementary school. Leadership and professional development issues are examined. Staff supervision, financial management, program policies, health and safety, and the physical environment are addressed. Unique initiatives and features of the early childhood profession are explored. (F)

G6033 Theory and Research in Early Childhood Education. Prerequisite: graduate standing or permission of instructor. Designed to facilitate students' understanding of various theories relevant to early childhood education. In-depth analysis of various theories will be accompanied by examination of research guided by these theoretical perspectives. Discussion will include how these theoretical views and the research associated with them influences the field. (Irreg.)

G6203 History, Philosophy and Future Trends in Early Childhood Programs. Prerequisite: graduate standing. A review of the history and philosophy of child care from Rousseau to the present; discussion of various early childhood education models in the United States and abroad is included. Implications of current research and policy for early childhood programs are emphasized. (Irreg.)

G6303 Parent Involvement and Parent Education. Prerequisite: graduate standing. This seminar explores current developments in parent involvement and parent education. Research on parent education programs and parent involvement will be discussed as well as the effects of each on children and families. Interventions designed for various populations of children and families are examined. (Irreg.)

G5123 Advanced Studies in Early Childhood Curriculum. Prerequisite: graduate standing or permission of instructor. Designed to increase the student's understanding of curriculum and instructional development in early childhood education. Various rationales and models for early childhood programs will be examined and analyzed. Definitions of curriculum and instruction will be studied along with models of both that will be compared vis-a-vis the various bases upon which they are developed. Formal evaluation of existing models will be investigated.

G5233 The Organization of Education. Prerequisite: graduate standing. The organization of American schools. The history, relationships, functions, present status and trends in local, state and national education agencies. The places which professional educational associations, citizen's committees and other influential groups have in relation to schools. The administrative hierarchy in schools and the special functions of each level. The multicultural aspects of schooling in America. (F, Sp, Su)

G5253 Legal Aspects of Teaching. Prerequisite: graduate standing or permission of instructor. Provides in-depth examination to broad educational law topics, students' rights, and teachers' rights. Study the landmark laws and court cases within these topics to apply new information and understandings to the student's position in educational settings.

G5343 Financial Leadership in the Schools. Prerequisite: graduate standing. Primarily for prospective building level educational leaders, and includes a comprehensive overview of the effective management of fiscal resources in public schools. (Su)

G5363 Contemporary Curriculum Theorizing. Prerequisite: 5543. Using contemporary theorists' work, a variety of ways to theorize within the field of curriculum studies is examined. Dominant issues, questions, and concerns raised by contemporary curriculum scholars are explored as well as the significance of their thinking in light of our prior and emerging understandings of schools and classrooms. (F)

G5543 Curriculum Development in Elementary and Secondary Schools. Prerequisite: graduate standing. Philosophical, social and psychological foundations related to decision-making in curriculum development at both the elementary and secondary school levels. (F, Sp, Su)

G5553 Models of Teacher Evaluation. Prerequisite: 5573 or equivalent. Students will investigate the literature appropriate to the systems and issues of teacher evaluation. The attributes of existing and proposed models will be examined. The issues of individual and institutional rights and responsibilities will be reviewed. The policies of personnel recruitment, selection and staff development will be related to the policies and procedures of teacher evaluation. (F)

G5573 Supervision of Instruction. Prerequisite: graduate standing. Focuses upon the clinical supervision of the classroom environment, instructional procedures and the evaluation of teaching through the processes of observation and consultation. Participants develop control of the instrumentation and procedures which enable them to gather, display and interpret data relevant to the evaluation of classroom environments. (F, Sp)

G5583 Supervision of Special Programs, Services, and Personnel in Schools. Prerequisite: graduate standing. Focuses on the theoretical, legal and research bases of programs and services identified as temporary systems designed to accommodate the special needs of students and special skills of professionals. A study of models linking services and resources within schools and with communities. Topics will include: special learner programs, utilization of resource centers, counseling services, health services, and organization strategies and problems with “pull out” programs. (Sp)

G5593 Principal Leadership. Prerequisite: graduate standing. School leadership; effective schools; elementary and secondary administration; administration characteristics and responsibilities including personnel, fiscal, facility organization governance, and evaluation. (F)

G5613 Human Relations in Education (Crosslisted with Human Relations 5613). Prerequisite: graduate standing. Focuses on intrapersonal, interpersonal and intergroup relations problems in the public schools. Specifically, it will deal with persistent school/classroom problems associated with multiculturalism, attempt to blend theory and practice through a lecture/discussion/problem-solving approach, and emphasize teacher self-awareness as a major aspect of the human relations approach.

G5623 School and Staff Development Management. Prerequisite: graduate standing. Provides preparation in the development of technical and conceptual skills applicable to principals in their establishment of professional cultures in school environments. Topics will include: staff development; school climate variables; school imaging problems, strategies, and
improvement models; student special interest programs and recognition procedures; and involving external groups in school improvement. (F, Sp)

G5683 The Middle School. Prerequisite: 12 hours of education, graduate standing, Origin, history and philosophy of the middle school. Course includes organization and development of curriculum; instructional models; student services and activities; evaluation/supervision of programs and personnel; change/implementation models. (Irreg.)

G5693 Technology in Educational Administration. Prerequisite: graduate standing. Provides the administrator the training in theory and application of computer concepts and the utilization of specific software programs and applications to enhance administrative decision making. (F)

G5793 Technology Staff Development in Education. Prerequisite: 5693 or equivalent. Technology in the form of computers and multimedia devices is becoming increasingly prevalent in classrooms. As school districts are expending more funds to purchase equipment and provide networking, it is important that educators have the training and development necessary to effectively utilize technology to improve the instruction of students. The course is designed to familiarize students with research and best practices in the area of technology staff development. (Sp)

G6023 Applied Quantitative Research Methods in Educational Administration. Prerequisite: graduate standing. Designed to provide advanced graduate students with research skills required of effective executive educational leaders. This course will provide students with the analytical tools necessary to become effective, critical consumers of educational research, and to enable potential educational leaders to oversee and supervise staff in the preparation, development, and dissemination of evaluative research. (F)

G6033 Advanced Curriculum Development. Prerequisite: graduate standing. Concepts of curriculum in K-12 education; program development; learning theories as related to curriculum; materials and media; principles of program and curriculum development; and construction of curriculum materials. (F)

G6123 Administrative and Organizational Theory. Prerequisite: graduate standing. An introduction to the important theoretical bases underlying the administration of organizations, particularly educational organizations; topics include bureaucracy, social systems, leadership, decision-making, properties of systems, communication and situational analysis. (F, Sp)

G6213 Policy Evaluation. Prerequisite: graduate standing or permission of instructor. A review of selected theoretical evaluation models; topics include techniques of evaluation, generation of performance objectives, forecasting, simulation, and gaming. (Sp)

G6223 Policy Planning and Development in Education. Prerequisite: graduate standing or permission of instructor. An introduction to analytical techniques applicable to the development of education policy. Includes consideration of decision theory and its application to policy making. Social, political, economic and multicultural factors in the organization and its environment will be explored as contexts within which educational policy is established. (F)

G6233 Leadership in Post-Modern World. Prerequisite: graduate standing. Review and analysis of existing concepts of leadership; review and analysis of contemporary school leadership styles. (F)

G6243 Education and the Law. Prerequisite: graduate standing. Legal framework of education in the United States; consideration of federal and state constitutional provisions, federal and state statutes, federal and state judicial decisions and rules and regulations of the various federal and state agencies which affect education. (F, Sp, Su)

G6253 Financing Education. Prerequisite: graduate standing, 5213, 5223, or equivalent or permission of instructor. A consideration of the roles of federal, state and local governments in the financing of education. Attention is given to the important contemporary issues related to educational financing at all three governmental levels. Also includes an introduction to the economics of education. (Sp)

G6263 Educational and Community Relations. Prerequisite: graduate standing or permission of instructor. Examines the field of intra/interpersonal relationships in the context of educational organizations and their constituent communities; topics include authenticity, organizational communication, leader behavior, group dynamics, and conflict management. (F)

G6273 Personnel Administration in Education. Prerequisite: graduate standing or permission of instructor. Emphasizes application of selected concepts from the social sciences and organization theory which relate to understanding and managing people within the organizational setting. Focus is on all aspects of the personnel function including: manpower planning, recruitment, selection, placement, evaluation, development, compensation, security and an introduction to collective negotiations. (Sp)

G6283 Communication for Educational Renewal. Prerequisite: graduate standing. Engage students in examining communication theory and practice involving intrapersonal, interpersonal, small group, and public communication settings within the context of educational renewal. (Su)

G6333 Politics in Educational Administration. Prerequisite: graduate standing. An overview of political activities at the local, state, and federal levels that will enhance the professional development of school administrators. Issues addressed include micro-politics at the school site and district offices; superintendent and school board relations; lobbying legislators and dealing with interest groups; the state political process, federal aid; and analysis of current political controversies. (F, Sp)

G6663 Special Education Law. Prerequisite: graduate standing. Enables students to understand the legal complexities involved in identifying and providing educational services to students with special needs. (F)

**Educational and Counseling Psychology (EDPY)**

2012 Career/Life Planning. Study of career development literature including character styles, personality types, aptitudes and decision strategies using the Holland Model. Enables students to apply information learned to long-range and immediate career/life goals.

G4413 Introduction to Counseling. Prerequisite: senior standing or permission of instructor. Development of the counseling and guidance profession. Various approaches and techniques employed in counseling. Work of the counselor in various settings. Introduction to basic theoretical and philosophical positions in counseling and guidance.

G5213 Group Administered Tests. Prerequisite: admission to Community Counseling program. Survey of standardized tests of intelligence, aptitudes, interests, attitudes, and personality traits; selection, use, and interpretation of such tests. Provision for the interests of counselors and guidance workers rather than classroom teachers. (F)

G5234 Individual Intellgence Testing. Prerequisite: 5213, permission of instructor. Three hours of classroom experience dealing with the rationale, purpose, and ethics involved in individual intelligence testing plus laboratory experience in the administration, scoring, and interpretation of the Stanford-Binet and Wechsler scales with an emphasis on the Wechsler scales.

G5253 Personality Assessment. Prerequisite: 5213 and 5234. Theories of personality testing and of personality. Students will acquire the skills requisite to administer a variety of personality tests used in community agencies ad be able to interpret and write reports on findings.

G5410 Occupational Information-Career Development. 3 to 6 hours. Prerequisite: graduate standing or permission of instructor. May be repeated once with change of content; maximum credit six hours. Methods of preparing informational files for student use; nature of educational and occupational information, job classification, sources of information, and occupational surveys and trends. Theories of career development; techniques of job and occupational analysis; individual experiences of reporting client career development.

G5423 Methods and Techniques of Counseling. Prerequisite: graduate standing and permission of instructor. Introduction to stages in the counseling process; interviewing skills; counseling objectives; appropriate strategies. Common theories of counseling and psychotherapy and ethical considerations are considered. (F)

G5430 Theories and Techniques of Group Counseling. 3 to 6 hours. Prerequisite: graduate standing and permission of instructor. Introduction to group dynamics with emphasis on counseling and consultation. Surveys theories and group techniques and their applicability. Experience in conducting and participating in a counseling group is included.

G5443 Developmental Guidance in the Schools. Prerequisite: graduate standing. Cognitive knowledge, procedures, skills and activities needed for the effective functioning of a school guidance and counseling program. Emphasis on age-related activities and factors involved in the planning of a school guidance and counseling program. (Sp)

G5453 Intervention Strategies for School Counselors. Prerequisite: graduate standing. Intervention strategies appropriate for an educational setting and the practical aspects of working with children. Emphasis on individual and group techniques, working with parents, collaboration, and developing effective curriculum to meet the needs of school students. (F)

G5463 Multicultural Counseling. Prerequisite: admission to community counseling or counseling psychology program. Consideration of the effects of cultural, ethnic, and/or language differences between counselor and counselee in the helping process. Sensitization to minority cultural values. Methods for enhancing multicultural communication.

G5483 Behavior Disorders. Prerequisite: admission to community counseling or counseling psychology program. Diagnostically oriented course in abnormal
behavior stressing standard nosology exemplified by the Diagnostic and Statistical Manual of the American Psychiatric Association (DSM).

**G6050 Individual Research.** 1 to 4 hours. Prerequisite: admission to doctoral program in educational and counseling psychology. May be repeated; maximum credit six hours. A seminar to initiate and conduct research projects on current topics in educational and counseling psychology. Funding sources and dissemination procedures will be presented.

**G6063 Counselling Psychology Research.** Prerequisite: admission to counselling psychology program, or permission of instructor. Designed to further acquaint students with the use of measurement and statistics in research, to provide students with a basic vocabulary of experimental design, to enable them to design and evaluate research pertinent to counseling and to enable them to review and critique current research in counseling.

**G6253 Projective Personality Instruments.** Prerequisite: 5213, 5234, 5253; permission of instructor. Theory of projective testing; acquaintance with several major instruments with special emphasis on the Rorschach test.

**G6403 Issues and Ethics in Counseling Psychology.** Prerequisite: admission to counseling psychology program or permission of instructor. Orientation to counseling psychology. Focus is on professional organizations, identity and issues, with a major emphasis on professional standards, ethical principles and legal considerations.

**G6413 Theories of Counseling and Psychotherapy.** Prerequisite: admission to doctoral program in counseling psychology or permission of instructor. An advanced course covering the formal aspects of counseling theory as well as selective content of the major counseling/therapy and vocational theories. Major focus is on assisting the student to critically compare various theoretical positions and to evolve a personally meaningful approach to counseling and therapy.

**G6423 Advanced Counseling Procedures.** Prerequisite: admission to counseling psychology program or permission of instructor. Review and critique of major methods of psychological assessment. Theoretical basis, rationale and research evidence for various therapeutic techniques will be examined.

**G6433 Advanced Group Counseling and Psychotherapy.** Prerequisite: admission to counseling psychology program or permission of instructor. Designed to examine in-depth the theoretical, empirical, and applied dimensions of group counseling and psychotherapy, with an emphasis on long-term outpatient groups. (Alt. Sp)

**G6443 Advanced Counseling and Therapy: Children.** Prerequisite: admission to counseling psychology program, or permission of instructor. Focuses on specialized counseling skills needed for working with children, with particular attention to diagnosis, interventions and working with parents.

**G6453 Family Counseling.** Prerequisite: admission to Counseling Psychology program, or Community Counseling program. Examination of counseling approaches for helping distressed families with an emphasis on the family as a system. Role play practice in problem assessment and using various techniques and interventions. (Irreg.)

**G6463 Marital Therapy.** Prerequisite: admission to Counseling program or Community Counseling program or permission of instructor. Examination or functional and dysfunctional marital relationships, etiology of dysfunction, research on marital issues, approaches to marital counseling and therapy, issues of divorce. Role play practice in marital therapy techniques. (Irreg.)

**G6470 Counseling Psychology-Supervision.** 1 to 2 hours. Prerequisite: admission to counseling psychology program or permission of instructor. Develops skills and cognitive knowledge in the area of supervision. Various approaches to supervision will be considered. Practice in supervising master's level or paraprofessional counselors will be required.

**G6473 Biopsychosocial Bases of Health Psychology.** Prerequisite: admission to counseling psychology program or permission of instructor. Designed to provide an integrative framework for examining biological, psychological, and social influences on behavior and health from the applied perspective of counseling psychology. (F, alt.)

**G6483 Advanced Career Counseling.** Prerequisite: 5410 or equivalent and admission to counseling psychology program. Designed to prepare students in the area of career counseling and acquaint them with current theoretical and empirical literature as a basis for clinical practice.

**G6493 Divorce-Related Counseling.** Prerequisite: admission to counseling psychology program. Designed to prepare students for clinical work with families experiencing separation, divorce, remarriage, etc.

**G6903 Advanced Counseling-Parents.** Prerequisite: admission to counseling psychology program. Addresses issues of assessment, counseling, and consultation in working with parents and their children.

**G6913 Counseling Psychology Practicum.** Prerequisite: admission to counseling psychology program. May be repeated; maximum credit fifteen hours. Designed to facilitate acquisition and development of clinical skills (diagnostic, conceptual, relationship) through combined didactic instruction, experiential training, and individual and group supervision. (F, Sp)

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**Elementary Education (EDEL)**

**3142 Creative Expression in the Elementary School.** Prerequisite: admission to Teacher Education program. An understanding of ways to promote creative expression of children in primary and intermediate grades. Emphasizes include basic elements of art, drama, and other forms of artistic expression related to teaching children. (F, Sp, Su)

**4101 Field Experience/Mentoring III.** Corequisite: EDLT 4313, EDMA 4053, EDSC 4193, EDSS 4323, ILAC 4043. Provides advanced professional experiences with children and professional educators in common school settings, including teaching, curriculum development, and mentoring beginning elementary education university students. (F, Sp)

**G5503 Integrating Multicultural Literacy in the Elementary/Middle School Classroom.** Prerequisite: graduate standing. Using multicultural literacy in curriculum and instruction for kindergarten through eighth grade. Focus is on reviewing a wide variety of resources and developing instructional strategies for integrating multiculturalism across the curriculum. (Sp)

**G5583 The Elementary/Middle School Language Arts Curriculum.** Prerequisite: graduate standing. Understanding of theories and current issues related to literacy in elementary and middle schools. (Irreg.)

**G5593 Problems of Teaching in Elementary Schools.** Prerequisite: graduate standing. Interdisciplinary seminar focusing on critical analysis of issues related to teaching and learning in elementary schools. (Irreg.)

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**English Education (EDEN)**

**3221 Mentoring.** Corequisite: 3222. Fosters professional development of secondary language arts education students and facilitates their successful participation in the Teacher Education program. (F)

**3222 Teaching Grammar in Language Arts.** Prerequisite: admission to Teacher Education program; corequisite: 3221. Designed to help secondary language arts students learn different conceptions of grammar and how to teach it. Students will study how cultural and social factors shape language usage for communication and psychological development. (F)

**32913 The Teaching of English (Crosslisted with English 4913).** Prerequisite: 3222, nine hours of education, and senior standing. To be taken preferably the semester immediately preceding student teaching. Development of skills in teaching the language arts at the secondary level. Introduction to current trends, professional literature and resource materials. Practice in presenting model lessons. Written reports. (V)

**G4923 Teaching Literature in Middle and Junior High School.** Prerequisite: admission to Teacher Education program or permission of instructor. Teaching literature in middle and junior high school, with particular emphasis on literature written for young people, current examples and related pedagogies. (Sp)

**G5203 Action Research in English Education.** Prerequisite: graduate standing; corequisite: 5920 (Internship). Nature and methodology of teacher research. Students will conduct a field research project with EDUC 5920, Internship in Education, to demonstrate understanding of fundamental field research design and practice, including writing the teacher research report. (F, Sp)

**G5213 Secondary English Curriculum.** Prerequisite: graduate standing. General principles of curriculum development and particular problems with planning literature curricula. Evaluation and revision of school curricula based on theories of curriculum planning.

**G5223 The Teaching of Composition: Theory and Practice.** Prerequisite: graduate standing. Analysis of competing theories of composition instruction. Study of issues related to planning writing activities, and consider problems related to writing about literature, informal writing, writing apprehension, teaching basic writers, and teaching syntax.

**G5233 The Teaching of Literature: Theory and Practice.** Prerequisite: graduate standing. Research and methodology important to teaching literature to young people and adults with particular focus on developing reading and responding abilities to poetry and fiction. Other emphases include reading-writing interactions, creative approaches to teaching traditional literature, uses of young adult literature, and developing middle/secondary literature curricula. (Sp)

**G5243 The Teaching of Language: Theory and Practice.** Prerequisite: graduate standing. Research and teaching methodology important to providing language instruction for young people with particular focus on oral and written language development in a culturally diverse society. Topics include grammar, usage, dialect, semantics, vocabulary instruction and curriculum design. (F)
G5253 Research in English Education. Prerequisite: graduate standing. Study of issues and methods involved with research in English education. May include experience in the collection and analysis of data. (Irreg.)

G5263 Special Topics in Literacy I. Prerequisite: permission of department. Possible topics include students in and out of school, culture and literacy, socio-historical perspectives on learning, and other analysis of literacy activity. (F)

G6263 Special Topics in Literacy II. Prerequisite: enrollment in doctoral program. Topics explore the definition and practice of literacy, with a focus on their applicability to doctoral research. The analysis of the topics will include a stress on the relationship between research problems and research methodology. (F)

### Instructional Leadership and Academic Curriculum (ILAC)

4003 Partnerships: Working with Parents and Community. Prerequisite: admission to Teacher Education program and senior status, or permission of instructor. Approaches for working with parents, guardians, and the community. Primary content for the on-campus and 30 hours field experience components includes: history of parental and community involvement in schools, interaction/communication skills, types of parental and guardian involvement, diversity of families, emerging trends, and legal implications. (F, Sp)

4043 Teaching Diverse Populations. Corequisite: EDUC 4101, EDLT 4313, EDMA 4053, EDSC 4193, and EDSS 4323, or EDEN 4913, or EDMA 4242. Open only to elementary, English, and mathematics education majors. Development of a multicultural perspective to teaching including an understanding of theoretical frameworks, methods, and experiences working with culturally diverse populations. (F, Sp)

G5003 Models of Instruction. Prerequisite: completion of undergraduate teacher education. Students will study teaching models and their strategies intended to improve abilities to analyze student-teacher interactions and to increase teacher effectiveness as instructor and manager in a variety of educational situations. (F, Sp)

G5043 Analysis of Teaching and Learning. Prerequisite: graduate standing; corequisite: EDUC 5920 (Internship). An understanding of how to analyze teaching and learning using a variety of reflective techniques including journals, oral inquiries, classroom/school studies, and theoretical analysis. (F, Sp)

G5143 Theory and Research in Education. Prerequisite: graduate standing or permission of instructor. An introduction to the processes and products of educational research such as stages in designing a study, introduction to research methods, identification of the components of a research-based article. Develops critical consumers of educational research. (F, Sp, Su)

G5233 Understanding Different Cultures. Prerequisite: graduate standing or permission of instructor. Provides information on cultural styles and characteristics of various ethnic and economic groups with emphasis on how teachers can understand and honor differences and similarities and adjust their teaching in order to be effective with a variety of students and families. (F)

G6013 Proseminar in Instructional Leadership and Academic Curriculum. Prerequisite: admittance to a doctoral program. Required for new ILAC doctoral students, to be taken in sequence with 6023. Intended to introduce students to interdisciplinary, cross-disciplinary, and specialization studies in the field; university educators and fellow students; and the ethos of doctoral study and the academy. (F)

G6023 Theoretical Issues in Instructional Leadership. Prerequisite: admittance to a doctoral program. Required for new ILAC doctoral students, to be taken in sequence with 6013. Focus on important theoretical issues which impact the research, curriculum, and practice of schools and other educational agencies. (Sp)

### Instructional Psychology and Technology (EPT)

3011 Productivity Tools for Education. Operation in both Mac and Windows environments. Use of word processing, database, spreadsheet, and telecommunications software to solve educational information communication and management problems. Laboratory (F, Sp, Su)

3043 Learning with Educational Technologies. Prerequisite: 3011 or permission of instructor. Designed to familiarize students with alternative instructional approaches using both cognitive and hardware technologies. Development of practical skills for using technology to solve instructional problems and accomplish educational goals. Laboratory (F, Sp, Su)

3113 Survey of Instructional Technology. Prerequisite: 3043. A survey course for pre-service teachers that presents instructional uses of a variety of digital media. (Irreg.)

3473 Educational Psychology of Childhood and Adolescence. Prerequisite: EDFN 3003. Psychological development from the preschool years through adolescence examined from the perspective of current theory and research. Educational applications are an integral part of the course. Families, schools, and societies for the context of development are considered. (F, Sp, Su)

3483 Cognition, Motivation and Classroom Management for Teachers. Prerequisite: EDFN 3003. Classroom implications from the study of cognition, motivation, and classroom management are presented. Topics include various perspectives on how students learn, motivation processes in achievement settings, factors influencing individual variations in cognition and motivation, multiple perspectives on classroom management, and an introduction to the assessment of educational outcomes. (F, Sp, Su)

G5023 Analysis of Quantitative Data I. Prerequisite: admission to doctoral program in College of Education, admission to master's program in instructional psychology, or permission of instructor. A brief review of descriptive statistics, introduction to basic inferential statistics, and analysis of variance. Topics covered include data screening and cleaning, correlation, simple regression, one-way ANOVA, factorial ANOVA, analysis of covariance, repeated-measures designs, and nonparametric techniques. Focus is on computer-based data analysis, and substantive conceptualization and interpretation of results. (F)

G5033 Introduction to Research and Evaluation in Education. Prerequisite: graduate standing. An introduction to major methods of scholarship and research in education. The main goal of the class is to help students develop the knowledge and skills required for critical reading of research. (F)

G5113 Educational Psychology of Human Development. Prerequisite: graduate standing or permission of instructor for undergraduates. An introductory survey of current theory and research as it applies to human development across the lifespan. Emphasis includes cognitive and language development, self and social development, and contextual influences on development. (Su)

G5133 Educational Psychology of Human Adjustment. Prerequisite: graduate standing or permission of instructor for undergraduates. Survey of normal and effective personality functioning in the context of major adjustment issues throughout the educational cycle and the life cycle. Study of the range of human adjustment along the spectrum from dysfunction to overall balance and well-being, and examination of how individuals adjust and grow according to environmental demands, family structure, and individual self-concept. Applications will be given in the context of instructional and counseling settings. Students will also explore their own adjustment issues and personality type in order to better understand others. (Irreg.)

G5153 Dynamics of Personal Behavior. Prerequisite: 5133 or equivalent, graduate standing. The nature of normal health planned to help teachers, guidance personnel and other school people gain an understanding of and methods for dealing with normal as well as children with problems. (Su)

G5163 Educational Psychology of Childhood. Prerequisite: 5113 or undergraduate developmental psychology course, or permission of instructor, and graduate standing. Advanced study of adolescent physical, cognitive, social, and personality development emphasizing current theory and research. Families, peer groups, and societies as contexts for development are also considered. (Sp)

G5173 Educational Psychology of Adolescence. Prerequisite: 5113 or undergraduate developmental psychology course, or permission of instructor, and graduate standing. Advanced study of adolescent physical, social, and personality development emphasizing current theory and research. Families, peer groups, and societies as contexts for development are also considered. (Sp)

G5183 Motivation and Learning in the Classroom. Prerequisite: graduate standing. Introductory course covering contemporary theories of cognition, learning, development, and motivation as they apply to the classroom. Theories will be applied to specific content areas such as reading, writing, math, and science. The role of instructional technology is embedded throughout the semester. (Su)

G5203 Measurement and Evaluation in Education. Prerequisite: graduate standing. An introduction to basic concepts of educational measurement, evaluation, and testing. Includes interpretation and uses of standardized tests. Emphasizes development of effective assessment for "teacher-made" tests. Students will also develop proficency in the basic statistical procedures (graphical display, central tendency, variability and association) required for handling assessment data. (F, Sp)

G5513 Teaching with Technology. Prerequisite: 3043 or permission of instructor. A problem-based approach to integrating computers and other technologies with educational settings. Consideration of such issues as...
G6023 Analysis of Qualitative Data II. Prerequisite: 5023. A continuation of 5023. Topics include power analysis, multiple linear regression, analysis of variance models, and an introduction to non-parametric statistics. (Sp)

G6033 Research Methods in Education. Prerequisite: 5023 or 5033. Research in professional education: readings, class discussion, and some experience in the various kinds of educational research; different techniques studied and evaluated in light of their usefulness in different kinds of research. A term paper and oral reports required in the field of one's individual interests and needs. Required as a tool of research for all candidates for the degree of Doctor of Education; recommended elective for candidates for the degree of Master of Education who intend to write a thesis. (F, Sp)

G6043 Qualitative Research Methods. Prerequisite: 5033 or equivalent by permission, graduate standing. Topics include qualitative research traditions, qualitative designs, data collection techniques, qualitative data analysis. Students design, conduct, and analyze their own qualitative study during the course. (F, Sp)

G6063 Applied Multivariate Statistics in Educational Research. Prerequisite: 5023 and 6023, or equivalent. Covers selected multivariate techniques with an emphasis on detecting and correcting violations of assumptions, applications, and interpreting results from popular computer software packages. (F)

G6073 Program Evaluation. Prerequisite: graduate standing. The process of evaluating different types of interventions. Topics covered include determining information needs of policy makers; current evaluation models; the planning, monitoring, and outcome phases of evaluation; and the evaluation report. (F)

G6083 Qualitative Research Methods II. Prerequisite: 6043, or equivalent by permission. Topics include qualitative research design, data analysis, data interpretation, and theory building. Students should have qualitative data ready to analyze before enrolling in the course. (Sp)

G6101 Propaedeutic Seminar. Prerequisite: admission to Instructional Psychology and Technology doctoral program. Summarizes the history of the field of instructional psychology and technology and introduces research typical of field and specific to interests of program faculty. Also discusses expectations for scholarship in the program and field and how students meet those expectations. (F)

G6113 Educational Psychology of Human Learning. Prerequisite: graduate standing or permission of instructor. Survey and analysis of representative theories of learning and current research related to the learning process. (F)

G6123 Planned Educational Change. Prerequisite: graduate standing. An overview of the process of planned change in education with special reference to research on change from behavioral sciences and organizational development. Topics include: the roles of the change agent, models of the change process, place of resistance in the change process and resolution of conflict among change-affected client groups. (F)

G6143 Instructional Development. Prerequisite: graduate standing. Instructional development is a systematic process for analyzing learning activities and instructional problems in order to develop practical, validated solutions. Specific reference will be made to the role of the instructional developer and to the application of nontraditional learning systems to identified instructional problems. (F)

G6153 Motivation in Education. Prerequisite: graduate standing or permission of instructor. Survey and analysis of historically significant and current theories of motivation. Basic and applied issues related to achievement and motivation to learn are examined. (F)

G6163 Instructional Design. Prerequisite: 6143. Major focus includes advanced instructional design principles that involve designing instructional strategies for different types of learning outcomes. Also advanced task analysis and test development procedures. (Sp)

G6173 Management of Instructional Technology Programs. Prerequisite: 6513 or equivalent by permission; graduate standing. For graduate students primarily interested in the management of educational technology in schools. Selection and procurement of materials and equipment, development of administrative forms and procedures, supervision of audiovisual activities and facilities for effective utilization of media. Coordination in curriculum development is emphasized. (Sp)

G6183 Cognition and Instruction. Prerequisite: graduate standing. Examines the contributions of cognitive psychology to issues of instruction. Surveys basic issues in cognition and examines applied issues in greater depth. (Sp)

G6203 Norm and Criterion-Referenced Measurement. Prerequisite: 5203 or permission of instructor. Advanced measurement for instructional designer, evaluators, and instructional researchers. A balanced description of principles and procedures for developing reliable, valid and practical measurement instruments. Includes item response theory and development of computer adaptive tests. (F)

G6213 Affective Instrument Development. Prerequisite: concurrent enrollment in 5023 and 6023. Methods and procedures in affective instrument (Likert, Semantic Differential) development for use as a self-report (classroom, survey) or observational (performance-based) assessment. Topics include scaling techniques, methods of obtaining score reliability, use of human subjects, manuscript preparation, and current methodological advances. (Irreg.)

G6313 Development of Instructional Software. Prerequisite: graduate standing. The development of instructional software, including programming or scripting and authoring tools. Use of at least one general purpose programming and authoring environment will be taught with applications involving tutorial instruction, presentations software development, developing simulations, developing information exploration learning environments, developing computer-delivered tests, and developing computer-managed instruction systems. (F)

G6333 Theory and Practice in Computer-Supported Learning Environments. Prerequisite: 6183 and 6313. Presumes background in instructional design and either programming or use of authoring instructional software. Focuses on the theoretical foundations and practical implementation of the design, development, and evaluation of computer-assisted instruction (CAI), computer-based learning environments (CBLEs), and interactive computer-based multimedia technologies. (Sp)

G6343 Advanced Instructional Software Development. Prerequisite: 6313 and 6523. Extends and adds to skills in development of instructional software. Adding to prior learning of at least one general purpose software development environment, the course includes skills in using an additional general purpose programming language and skills in using a special-purpose instructional authoring system. (Sp)

G6423 Web-Based Instruction. Prerequisite: 5533 and 6143. Designed to prepare students with knowledge, skills, and tools in the areas of web-based and web-supported instruction. Provides learners with both theoretical understanding of and practical skills for using the Internet in instructional settings. (Sp)

G6503 Development of Text-Based Instruction. Prerequisite: graduate standing. Development of prose, text-based instruction, including considerations of readability, organization, layout, and typography for instructional purposes. Effective use of graphics in instruction. Production of print-based instruction, including desktop publishing. (F)

G6523 Production of Educational Media. Prerequisite: 6313 or 6513. For teachers and instructional technology professionals to increase knowledge and skills in producing instructional materials for a variety of media. Topics include visual communication, and the development and manipulation of graphics, sound, animation, and video. (Sp)

G6533 Design and Development of Instructional Multimedia. Prerequisite: 6313 and 6343. Overviews the principles and procedures for developing interactive multimedia for instructional purposes. Reviews relevant theory regarding uses of this technology in instruction. Requires development of prototype materials for CD-ROM or DVD and interactive video disc. (Sp)

G6553 Instructional Television. Prerequisite: 6523 or equivalent (permission on equivalent), graduate standing. Focus is on production and utilization of television in instruction for education and training settings. Topics developed include: television production planning, personnel functions in television production and use, equipment characteristics, television equipment operation, program development, directing and varieties of utilization. (F)

G6613 Research Issues in Instructional Technology. Prerequisite: doctoral standing. May be repeated with change of content; maximum credit 12 hours. Examine specified research issues in the field of instructional technology. Students will read and critique existing research, as well as identify directions for new and continuing research. (Irreg.)

G6713 Research Issues in Instructional Psychology. Prerequisite: doctoral standing. May be repeated with change of content; maximum credit of 12 hours. Examine specified research issues in the field of instructional psychology. Students will read and critique existing research, as well as identify directions for new and continuing research. (Irreg.)

G6873 Educational Futurism (Crosslisted with Social Foundations of Education 6873). Prerequisite: graduate standing. Deals with anticipated social and environmental change created by expanding technology, cybernation, computers, electronic information systems, mass media and the like. Treats impact of change on educational institutions and educational alternatives needed for human survival.
### Literacy Education (EDLT)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3183</td>
<td>Theories of Literacy Development for Young Children</td>
<td>Prerequisite: admission to Teacher Education program; 3253 or concurrent enrollment</td>
<td>Introduction to the essential concepts of language and literacy learning and teaching from birth through third grade. Topics include theories of language and literacy development, components of a literacy-rich environment, and evaluation of literacy activity. (F)</td>
</tr>
<tr>
<td>3253</td>
<td>Understanding and Teaching Children’s Literature</td>
<td>Prerequisite: admission to Teacher Education program</td>
<td>Introduction to children’s literature from infancy to middle school, elements of literature, and how to encourage children’s responses to literature. Topics include understanding literary genre, the history of children’s literature, book selection, literacy response theory, and the development of a literature curriculum. (F, Sp, Su)</td>
</tr>
<tr>
<td>3711</td>
<td>Language and Literacy Tutoring I</td>
<td>Prerequisite: admission to Teacher Education program; 3253 or concurrent enrollment</td>
<td>Support preschool teachers in making connections between theories of language and literacy. (F, Sp, Su)</td>
</tr>
<tr>
<td>3713</td>
<td>Foundations of Language and Literacy Development and Assessment</td>
<td>Prerequisite: admission to Teacher Education program; 3253 or concurrent enrollment</td>
<td>Corequisite: 3713. Support pre-service teachers in making connections between theories of language and literacy development/assessment and children's actual literacy learning processes and products. (F, Sp, Su)</td>
</tr>
<tr>
<td>4201</td>
<td>Language and Literacy Tutoring II</td>
<td>Prerequisite: 3713</td>
<td>Support preschool teachers in making connections between theories of language and literacy development/assessment and children's actual literacy learning processes and products. (F, Sp, Su)</td>
</tr>
<tr>
<td>4203</td>
<td>Language and Literacy Evaluation and Instruction</td>
<td>Prerequisite: 3253, 3713</td>
<td>Corequisite: 4201. Evaluating literacy and development in various settings, interpret assessment findings, and select instructional strategies to promote literacy development. Explore factors related to language and literacy evaluation and instruction. (F)</td>
</tr>
<tr>
<td>4303</td>
<td>Methods, Materials, and Organization of Literacy Programs for Young Children</td>
<td>Prerequisite: 3183</td>
<td>Focuses on supporting literacy learning in a variety of learning environments for children from birth through third grade. Emphasis includes developmentally appropriate teaching strategies and activities, instruction, planning, and evaluating instruction. Planning the overall literacy program, integration of literacy across the curriculum, and evaluating literacy materials. (Sp)</td>
</tr>
<tr>
<td>4313</td>
<td>Language and Literacy in Elementary/Middle School Classrooms</td>
<td>Prerequisite: 4203</td>
<td>Corequisites: EDLE 4101, EDMA 4053, EDSC 4193, EDSS 4323, ILAC 4043. Explore issues related to planning, organizing, and implementing an integrated literacy program in elementary/middle schools. Reflect on field experiences that lead to informed, dynamic teaching and learning. (F, Sp)</td>
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### Mathematics Education (EDMA)

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</thead>
<tbody>
<tr>
<td>3001</td>
<td>Mathematics Education Field Experience Mentoring II</td>
<td>Prerequisite: admission to Teacher Education program, EDEN 3003; corequisite: EPT 3483</td>
<td>Mentoring course providing access to and support from mathematics education faculty for students during their second level field experience. Students meet with the mathematics education faculty for seminars, discussions, and demonstrations. (F, Sp)</td>
</tr>
<tr>
<td>3053</td>
<td>Problem-Centered Learning Environments</td>
<td>Prerequisite: admission to Teacher Education program; MATH 1473 and 2213</td>
<td>Designed to engage the prospective teacher in examining various facets which contribute to decision making with regard to a learning environment best adapted to the abilities and needs of each student as a mathematics learner. (F, Sp)</td>
</tr>
<tr>
<td>3153</td>
<td>Early Mathematics Concepts</td>
<td>Prerequisite: 3053, Mathematics 2213, 3213</td>
<td>Students will engage in mathematics activities as a basis for reflecting on and analyzing the learning and teaching of mathematics appropriate to primary education, in order to make decisions with regard to meeting the needs of young children as mathematics learners. (F, Sp)</td>
</tr>
<tr>
<td>4000</td>
<td>Mathematics Education Field Experience Mentoring III</td>
<td>Corequisite: 4242</td>
<td>Mentoring course providing access to and support from mathematics education faculty for students during their third level field experience. Students meet once per month with the mathematics education faculty for seminars, discussions, and demonstrations. (Sp)</td>
</tr>
<tr>
<td>4053</td>
<td>Elementary Mathematics Curriculum</td>
<td>Prerequisite: 3153</td>
<td>Corequisites: EDLE 4101, EDMA 4124, EDSC 4193, EDSS 4323, ILAC 4043. Designed to offer the student means for planning, implementing, and evaluating mathematics instruction. Examination of the elementary curriculum will provide the basis for understanding and developing specific strategies and materials for teaching elementary mathematics. (F, Sp)</td>
</tr>
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### Professional Studies in Education (EDPR)

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<tbody>
<tr>
<td>3373</td>
<td>Education Decision Making—Personalized</td>
<td>Prerequisite: junior standing</td>
<td>A study of the forces and factors underlying the decision-making behavior of the individual in certain and uncertain occupational and lifestyle situations. A study will be made of “futurism” and its relationship to decision making. Location and qualification of sources for data for working with alternatives will be stressed. Developing educationally to cope with anticipated future activities. (F)</td>
</tr>
<tr>
<td>3643</td>
<td>Curriculum Design and Development</td>
<td>Prerequisite: 3153</td>
<td>Designed so participants can engage in non-routine problem solving as a basis for examining and reflecting on such an approach to the teaching and learning of mathematics. (Irreg.)</td>
</tr>
<tr>
<td>3711</td>
<td>Elementary School Mathematics Curriculum</td>
<td>Prerequisite: elementary school teaching</td>
<td>Corequisite: 3713. Analysis of research, trends, and issues in elementary mathematics teaching. Special attention is given to the research and theoretical bases underpinning curricula. (Irreg.)</td>
</tr>
<tr>
<td>3753</td>
<td>Middle School/High School Mathematics Curriculum</td>
<td>Prerequisite: graduate standing</td>
<td>Corequisite: 3713. Analysis of research, trends, and issues in middle school and high school mathematics teaching. Special attention is given to the research and theoretical bases underpinning curricula. (Irreg.)</td>
</tr>
<tr>
<td>3757</td>
<td>History of Mathematics for Educators</td>
<td>Prerequisite: graduate standing</td>
<td>Corequisite: 3713. Analysis of research, trends, and issues in middle school and high school mathematics teaching. Special attention is given to the research and theoretical bases underpinning curricula. (Irreg.)</td>
</tr>
<tr>
<td>3793</td>
<td>Use of Technology in Teaching Mathematics</td>
<td>Prerequisite: graduate standing</td>
<td>Corequisite: 3713. Analysis of research, trends, and issues in middle school and high school mathematics teaching. Special attention is given to the research and theoretical bases underpinning curricula. (Irreg.)</td>
</tr>
<tr>
<td>46163</td>
<td>Systems Theory and Learning Organizations</td>
<td>Prerequisite: graduate standing</td>
<td>Corequisite: 3713. Analysis of research, trends, and issues in middle school and high school mathematics teaching. Special attention is given to the research and theoretical bases underpinning curricula. (Irreg.)</td>
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### Reading Education (EDRG)

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<tbody>
<tr>
<td>0112</td>
<td>Reading Improvement</td>
<td>Prerequisite: 3153</td>
<td>Designed to improve the ability of individual students to read and comprehend college-level material. Each student is tested to permit instruction to begin at the appropriate level. Not acceptable for credit at the University of Oklahoma. (F, Sp, Su)</td>
</tr>
<tr>
<td>0112</td>
<td>College Reading Strategies</td>
<td>Prerequisite: 3153</td>
<td>A continuation of EDRG 0112. The course focuses on the development of reading strategies for college textbooks. Strategies include comprehension monitoring and how to construct a coherent interpretation of a passage. (F, Sp, Su)</td>
</tr>
</tbody>
</table>
and learning, and organization of a science laboratory for inquiry teaching. No student may earn credit for both 4513 and 5513. (F, Sp)

G5513 Teaching Science in Secondary Schools (Slashlisted with 4513). Prerequisite: nine hours of education, a teaching field in science. Review of the purpose of education; the nature and structure of science; review of the characteristics of the secondary school learner; elements of inquiry, learning in an inquiry-centered laboratory; evaluation of inquiry teaching and learning, organization of secondary science laboratory for inquiry teaching. No student may earn credit for both 4513 and 5513. (F, Sp)

G5514 Research and Development of Science Curricula. Prerequisite: 5513. Provides the following experiences: teaching existing learning cycles to peer groups; developing new learning cycles; and teach these newly developed learning cycles to peers and/or secondary school students. (Sp)

G5523 The Science of Learning Theories. Prerequisite: 12 hours of education or permission of instructor. The mental functioning model of Piaget is developed through experience. The characteristics of persons at each stage of development are identified and compared. A teaching theory is drawn from the functioning model and a curriculum organization and planning theory are derived from the stage model. These theories are put into practice. (Irreg.)

G5543 The Elementary School Science Curriculum. Prerequisite: 12 hours of education, graduate standing. Elementary school science curricula are examined from a theory-based perspective which includes: the nature of science, purpose of schools, developmental learning theory, and the teaching procedure known as the learning cycle. Students trace the development of American science education from 1700 to present. (Alt. F)

G6332 Paradigms for Scientific Investigations. Prerequisite: admission to graduate standing. Current research paradigms in science education will be constructed through readings, discussions and presentations. A thorough review of the literature will include the use of professional journals, theses and dissertations from that area to develop a sound understanding of research paradigms and the formal reporting of research. (Irreg.)

G6533 Understanding Classroom-based Research. Prerequisite: EPT 5023 and graduate standing. Develops understanding of the complex nature of classroom research. Students will design and analyze classroom-based investigations which involve qualitative research design; data description and interpretations of these data; and relate these to teaching and learning. (Alt. Sp)

Secondary Education (EDSE)

G6563 Problems of Teaching in Secondary Schools. Prerequisite: twelve hours of education, graduate standing. Place of the teacher with reference to teacher-pupil, teacher-administrator, and teacher-community relations. Problems of teaching related to criticisms of present-day secondary education; the task of secondary schools; the adolescent learner; planning for learning; appraising learning and growth; human relations; guidance; the teacher and school organization; trends in teaching. (Sp)

Social Foundations in Education (EDFN)

3003 Schools in American Cultures. Prerequisite: admission to Teacher Education program. An overview of education as a profession based upon historical and philosophical principles including a treatment of current problems and their social significance. May be taken concurrently with EDRC 5011. (Sp)
G5543 Education and National Development. Prerequisite: graduate standing. Through interdisciplinary readings students will develop an understanding of the possibilities and limits of education as an instrument of social change within varying national contexts. Also addresses challenges surrounding issues of gender, class, culture, race, language, ethnicity, and religion and how they are impacted by the provision, form and content of education. (Sp)

G5703 Sociology of Education (Crosslisted with Sociology 5703). Prerequisite: eight hours of education or permission. Social structure in the community wherein the school must operate and the nature of human relations within the school; social processes and patterns involved in the educational system relative to other aspects of our society; and the effect of the school on the behavior and personality of its participants. Lectures, class discussions, audiovisual materials and outside readings, both scientific and literary, portraying the American social scene. (F)

G5753 The Educational Philosophy of John Dewey. Prerequisite: graduate standing. Close critical study of educational thought by John Dewey; his recent critics, his contemporaries, and others who influenced or were influenced by him in a multicultural, gendered, and technologically developing context. Intensive oral and written work will aim at developing continuity between theory and practice in various formal and informal educational settings. (Sp)

G5783 Classics in Educational Thought. Prerequisite: graduate standing or permission of instructor. Close study of selected “classics” in educational thought by Plato, Rousseau, DuBois, Dewey, Woolf, or others of comparable historical significance for multicultural concerns throughout the human lifespan in a context of social inequalities. Intensive written and oral practice in basic conceptual skills and informal logic will require independent inquiries on topics of special interest to students. (F)

G5823 Contemporary Critical Thought and Educational Studies. Prerequisite: graduate standing or permission of instructor. Close study of contemporary critical thought that has profoundly transformed recent theorizing about education and its various social, cultural, and economic contexts. Major texts selected from philosophical movements such as analysis, existentialism, Marxism, feminism, post-structuralism, neo-pragmatism, Intensive oral and written practice in educational criticism and theory, developing case studies from primary sources. (Sp)

G5833 Gender, Values, and Education (Crosslisted with Philosophy 5833). Prerequisite: graduate standing or permission of instructor. May be repeated with change of topic; maximum credit six hours. Topics vary each semester, but are developed from philosophical studies in and about education, politics, ethics, aesthetics, law and religion that address the issues of gender and sexuality. Intensive oral and written theoretical inquiry. (Irreg.)

G5913 Cultural Pluralism and Education. Prerequisite: graduate standing or permission of instructor. Investigates the role of the schools from an interdisciplinary perspective using the philosophy, history, anthropology, and sociology of education and cross-cultural analysis, in fostering a climate of ethnic, racial, and gender inclusiveness. (F)

G5933 Girls, Women and Educational Studies. Prerequisite: graduate standing or permission of instructor. History, sociology, and/or philosophy of girls’ and women’s education in a multicultural context that includes family, work, and community life as well as coeducational public schooling and higher education in the U.S. Oral and written critical inquiry concerning selected primary sources will introduce students to the activity of interdisciplinary theorizing about gender and sexuality in education. (F)

G5943 American Social and Education Issues in Historical Perspective. Prerequisite: graduate standing. May be repeated; maximum credit six hours. Acquaints students with several diverse culture groups which constitute society in the United States and their placement within the historical context of American education. Educational experience of these groups will be discussed. Class members will integrate their personal narratives into an understanding of interdisciplinary theorizing about American culture. (F)

G6101 Writing Educational Inquiry (Crosslisted with Philosophy 6101). 1 to 3 hours. Prerequisite: graduate standing, enrollment in EDEN graduate course, and permission based on review of writing samples. May be repeated; maximum credit nine hours. Individual or group tutorial study of informal logic and rhetorical theory concerning academic writing as a social practice. Emphasis on contextually appropriate documentation practices, philosophical moves, and rhetorical devices; development of clarity and grace in written formulations of educational concepts and values. Address various scholarly and professional situations. Aimed toward public presentation or publication. (F, Sp)

G6013 Gender, Knowledge and Inquiry (Crosslisted with Philosophy 6013). Prerequisite: graduate standing and Women’s Studies 4003 or equivalent, or any graduate-level course in research methods or philosophy, or three graduate hours in EDEN. Interdisciplinary seminar introducing feminist criticisms of epistemology and exploring their possible significance for design and practices of gender sensitive inquiry in various academic fields and educational contexts. (F)

G6033 Inquiry Design. Prerequisite: graduate standing or permission of instructor. May be repeated; maximum credit six hours. An individual or small group tutorial focused exclusively on preparation of the dissertation or prospectus for interdisciplinary critical or theoretical inquiry in Historical, Philosophical, and Social Foundations in Education. (F)

G6073 Advanced Studies in the History of Educational Thought. Prerequisite: 5753 and 5783, or equivalent and permission of instructor. May be repeated for credit, maximum credit nine hours. Topics for selection will vary. An individual or group tutorial in which students pursue original inquiries with close guidance and contribute to the delivery of EDEN 5753 or 5783. A final paper suitable for public presentation or publication is required. (Sp)

G6763 Issues in Contemporary American Education. Prerequisite: graduate standing. Backgrounds of the contemporary American social scene with such issues as extension of educational opportunity; interconnectedness between church, state, and school; changing economic concepts in the age of technology; purposes of education to social policy; federal aid to education; academic freedom. (F)

G6793 History of American Education. Prerequisite: graduate standing. Development of schools in American society from colonial times to the present as set against the background of intellectual movements and changes from the colonial period to the present. Attention is given to the development of the organization, administration, finance and curriculum in the American public school system. Major concepts relating to the maintenance of a school in American society are considered; historical treatment of nationalism, populism, empiricism, humanism, a person’s relation to spiritual and material self, as these topics relate to the development of educational ideals and practices in American society. (F)

G6873 Educational Futurism (Crosslisted with Instructional Psychology and Technology 6873). Prerequisite: graduate standing. Deals with anticipated social and environmental change created by expanding technology, cybernetics, computers, electronic information systems, mass media and the like. Treats impact of change on educational institutions and educational alternatives needed for human survival. (F)

G6903 Colloquium in Contemporary Educational Thought. Prerequisite: 5823 or 5933, or equivalents and permission of instructor. May be repeated for credit, maximum credit nine hours. Topics for selection will vary. A colloquium in which students share and participate mutual critique of original inquiries they are pursuing with close guidance. Participation in the delivery of EDEN 5823 or 5933 and a final paper suitable for public presentation or publication are required. (F)

G6933 Naturalistic and Qualitative Research in Education. Prerequisite: graduate standing. Designed to familiarize graduate students in education with naturalistic research and qualitative methodologies. (F)

G6973 Documentary and Narrative Research. Prerequisite: graduate standing or permission of instructor. Documentary and narrative research in education. Use of primary and secondary sources, evidence, generalization, interpretation, documentation, citation, and oral history are discussed. (F)

Social Studies Education (EDSS)

3553 Foundations to Social Studies Education. Prerequisite: admission to Teacher Education Program. Designed as a way to view social studies as an integrated body of knowledge while focusing on the various subject matter areas. (F, Sp)

4323 Teaching Social Studies in Elementary/Middle Schools. Prerequisite: 3553; corequisites: EDEL 4101, EDLT 4133, EDMA 4053, EDSC 4193, ILAC 4063, and EDMA 4153; corequisite: EDMA 4153, EDMA 4323, EDMA 4325, EDMA 4327, EDMA 4328, EDSC 4323, EDMA 4325, EDMA 4327, EDMA 4328. Designed to develop the basic pedagogical knowledge and skills required for effective planning, implementation, and evaluation of social studies instruction in the elementary and middle school curriculum. Emphasizes application and analysis of systematic instructional design, instruction, and content and process goals, objectives, and activities. (F, Sp)

4511 Mentoring and Field Experience in Social Studies. Corequisite: 4563. Graduate students are assigned to classrooms where they observe, participate, and participate in teaching. Students are asked to audit audio/video tape their lessons and analyze them based on set criteria. (F, Sp)

4563 Teaching Secondary Social Studies. Prerequisite: nine hours of education, senior standing; corequisite: 4551. Curriculum and instructional strategies for teaching secondary social studies with a focus on (a) appropriate methodologies, and (b) matching these methods to content and learners. The students will study a variety of classroom techniques and the assessment of such techniques on social studies teaching. (F, Sp)
**Special Education (EDSP)**

**3053 Education of Exceptional Learners.** Prerequisite: admission to Teacher Education program. A comprehensive overview of learners with exceptionalities—including the student who is physically/heath impaired, visually impaired, hearing impaired, speech/language impaired, mentally retarded, learning disabled, gifted, emotionally disturbed or multiple disabled. Lectures/discussions on how differences can influence learning/teaching and what teachers can do to help. (F) (Sp)

**3054 Understanding and Accommodating Students with Exceptionalities.** Prerequisite: admission to Teacher Education program. Introduces pre-service educators to the federally-mandated policies and procedures for educating children and youth with exceptionalities. (F) (Sp)

**3257 Mental Retardation Block.** Prerequisite: 3617. Encompasses the introduction to the lifespan development of persons who are mentally retarded, as well as incorporating procedures for working with them as part of practicum experience in the field.

**3611 Team Mentoring.** Prerequisite: 3054. Covers what mentoring involves, demonstrates what mentoring is, and involves a one-on-one project with assigned mentoring.

**3612 Teacher Self Understanding.** Prerequisite: 3054. Explores need to understand self and others in order to teach effectively. Touches on self concept, emotional development, what makes a good teacher, and exploration of own teaching strengths and weaknesses.

**3617 Learning Disabilities Block.** Prerequisite: 3612. Encompasses the introduction to the lifespan development of persons with learning disabilities, procedures for working with them, and practicum experience in the field.

**3753 Working with Parents of Exceptional Individuals.** Prerequisite: 3054. Examines how to work effectively with parents of exceptional individuals in order to better help those individuals reach their fullest potential. Explores effective interpersonal skills, needs of those parents, and the best ways to positively influence them are considered. (F)

**1CG390 Introductory Practicum in Special Education.** 1 to 6 hours. Prerequisite: eight hours of education. May be repeated with change of content; maximum credit six hours. Caves undergraduate students direct experiences with children referred to the special education laboratory for testing and evaluation. These referrals are related directly to public school problems.

**G4203 Technological Adaptations for Exceptional Learners.** Prerequisite: EPT 3043. Trains teachers to be aware of the needs of exceptional learners and how technological advances can help them better reach their potential. (Sp)

**G4413 Management in Special Education.** Prerequisite: 3053, 4623, 4743. An overview of management theories and interventions applied to special education populations. (Irreg.)

**G4513 Assessment for Eligibility and Program Planning.** Prerequisite: 3054, 4612, 4713; permission of instructor. Study of assessment instruments, interpretation, and use eligibility, placement, and program planning for individuals with mild to moderate disabilities. (F)

**G4613 Introduction to Students with Learning Disabilities.** Prerequisite: 3054. An overview of learning disabilities, characteristics and diagnosis of individuals with learning disabilities; counseling of parents of learning disabled children. (Sp)

**G4623 Curriculum and Techniques for Students with Mild–Moderate Disabilities.** Prerequisite: 3054, 4743. Methods and techniques of remediation of skills in academic curriculum for students with mild–moderate disabilities. (Sp)

**G4633 Language and Communication Strategies for Individuals with Disabilities.** Prerequisite: 3054. Consideration of the methods and techniques of remediation of language and communication disorders including areas of oral expression, listening comprehension, reading and written expression. (Sp)

**G4713 Introduction to Students with Mental Retardation.** Prerequisite: twelve hours of education, including 3054 and EPT 3483 or equivalent, graduate standing. Causes and nature of mental retardation and education of students with mental retardation.

**G4723 Teaching Techniques in a Functional Curriculum.** Prerequisite: 3003, EDS 4743 and 4623. Presents a functional scope and sequence and the teaching techniques most effective for students with disabilities. (Sp, Su)

**4717 Emotionally Disturbed Block.** Prerequisite: 3257. Introduction to the lifespan development of persons who are emotionally disturbed, procedures for working with them, and practicum experience in the field.

**G4723 Teaching Techniques in a Functional Curriculum.** Prerequisite: 4623, 4743, EDFN 3003. Presents a functional scope and sequence and the teaching techniques most effective for students with disabilities. (F)

**G4743 Introduction to Mild-Moderate Disabilities.** Prerequisite: 3054. An in-depth study of the theoretical considerations of individuals with mild to moderate disabilities including etiology, assessment, interventions, and service delivery. (F)

**G4753 Individuals with Multiple Disabilities.** Prerequisite: 3054. Deals with definitions, traits, characteristics, needs, research on procedures for working with multi-handicapped individuals. (Irreg.)

**G4823 Transition and Self-Determination.** Prerequisite: 4743. Assessment, planning and instruction to facilitate educational and employment post-school outcomes with information on laws and resources. (F)

**4890 Advanced Practicum.** Prerequisite: 3890; corequisite: 4723. The final field experience before students earn the bachelor's degree. Students complete a minimum of 160 hours of observation and participation in a special education classroom. (F)

**G5133 Introduction to Students with Emotional Disturbance.** Prerequisite: 3054. Provides an overview of various theoretical and practical considerations of emotional disturbance including etiology, assessment, intervention and service delivery. (F)

**G5143 Enhancement of Social and Task-Related Behavior.** Prerequisite: 4753. Various theoretical approaches to teaching social competency: increasing and improving pro-social behavior of students with disabilities and their peers; and improving learning behavior. (F)

**G5153 Instructional Modifications for Students with Disabilities.** Prerequisite: 4623, 4743. Develop instructional skills necessary to teach students with mild/ moderate disabilities in varied instructional settings. Topics will include effective instructional techniques, strategies for modifying and adapting general education curriculum, and models for improving student academic performance. (Sp)

**G5173 Collaboration for Lifelong Integration.** Prerequisite: graduate standing. Explores collaborative approaches to working with families, general educators, related service providers, and personnel in other agencies to facilitate the integration of individuals with disabilities from birth through adulthood. (F)

**G5183 Advanced Assessment and Remediation Procedures.** Prerequisite: 5173 or equivalent. Focus will be on innovative approaches to assessment and remediation of mild to moderate learning and/or behavior problems. Techniques, methods and materials will be presented within a career/ecological framework and will be research based.

**G5303 Applied Research in Special Education.** Prerequisite: graduate standing. Involves cooperative planning of research project (with mentors) to be designed, implemented, evaluated and written. (F)

**G5403 Exceptional Infant/Toddler.** Prerequisite: graduate standing. Examines the infant/toddler who is at risk/developmentally delayed—possible problems, complications and need for multidisciplinary intervention and procedures.

**G5412 Theories in the Education of Exceptional Children.** Prerequisite: graduate standing. Surveys all types of disabilities with special attention to causes, diagnosis and educational planning. Legislation related to special education is overviewed. Designed for teachers, supervisors and administrators.

**G5953 Teaching Procedures for Students with Emotional Disturbance.** Prerequisite: graduate standing. Theories of behavior are related to identification, diagnosis and educational planning for students with emotional disturbance. An examination of methodologies for teaching students with emotional disturbance
with problems in language, reading, written expression, mathematics and social skills which have emerged from various theoretical perspectives is presented.

G5982 Directed Project in Special Education. Prerequisite: graduate standing. Under the direct supervision of the student’s adviser, the student conducts an applied project on a topic or challenge in special education related to the student’s interest. (F, Sp, Su)

G6003 Attitudes Toward Individuals with Disabilities. Prerequisite: graduate standing. Focuses on the attitudes of parents, peers and professionals toward individuals with disabilities, and on measurement of attitudes and procedures which may be used to increase acceptance.

G6023 Antecedent Applied Behavior Analysis and Research Design. Prerequisite: graduate standing. Examines applied behavior analysis principles and techniques, including observational data analysis data gathering and, antecedent strategies. ABA research design, APA writing style, ethics, human subjects approval process will also be included. (Irreg.)

G6033 Self-Determination Seminar. Prerequisite: graduate standing. Examines self-determination assessment, instruction, and infusion into secondary IEPs as a method to improve post-school outcomes for students with disabilities and those at high risk of school failure. Implementation issues and effective practice will be examined in light of efficacy research. (Irreg.)

G6043 Secondary Education and Transition Seminar. Prerequisite: graduate standing. Examines the status of secondary education for students with disabilities and those at high risk for school failure. Focus will be upon transition assessment, planning, and instructional issues and strategies to improve post-secondary outcomes, especially transition into post-secondary education. (Irreg.)

G6053 Post-Secondary Education Seminar. Prerequisite: graduate standing. Examines the status of post-secondary education for students with disabilities and those at high risk of school failure. Focus will be upon transition into and success strategies to maximize post-school success. Transition from school to work or advanced study will be discussed. (Irreg.)

G6103 Consultation in Special Education. Prerequisite: graduate standing. Students will develop a variety of consultation skills. Topics include models of consultation; interpersonal communication skills; problem-solving approaches; strategies for effective interactions with professionals, paraprofessionals, and parents; and planning and conducting inservice training.

G6113 Program Development. Prerequisite: graduate standing and permission of instructor. May be repeated; maximum credit six hours. Examine educational media; models of information; producing and consuming applied research; grant writing; dissemination; program, design, development and evaluation for advanced masters or doctoral students. (Sp)

G6123 Contemporary Issues/Research. Prerequisite: 5173, graduate standing, and permission of instructor. Examines critical issues influencing the field of special education and services for persons with disabilities. (Sp)

G6202 Practicum in Special Education Consultation. Prerequisite: 4422, 6103. Students will rehearse consultation skills in a field setting. Emphasis is placed on establishing consultation programs; entering, maintaining, and terminating consultative relationships; evaluating intervention effectiveness; conducting inservice training; and utilizing observational data as a basis for implementing change.

G6203 Professional Seminar I. Prerequisite: graduate standing or permission of instructor. Designed for post-master’s student who has been accepted into the Ph.D. program. Covers review and synthesis of a current research area, professional writing and dissemination. (F)

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**Electrical and Computer Engineering (ECE)**

2214 Introduction to Digital Design. Prerequisite: Mathematics 2423. Number systems, Boolean algebra, minimization procedures, combinational logic functions, introduction to sequential logic design, finite state machines and clocked (synchronous) sequential circuits. Analysis, synthesis and implementation are appropriately emphasized. (F, Sp)

2281 Engineering Co-Op Program (Crosslisted with AME, CH E, CE, C S, ENGR, HPHY, E S, GE, E I, E P 2281). Prerequisite: student participation in the program. The Co-Op program provides student placement in jobs outside the University, but in a position related to the student’s major. On completion of a semester work period, the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

2713 Digital Signals and Filtering. Prerequisite: Engineering 1112, Mathematics 2423. Digital signals and filters, discrete Fourier and Z transforms, sampling. (F, Sp)


2772 Electrical Engineering Laboratory I. Prerequisite: Engineering 2613 or concurrent enrollment in Engineering 2613. Principles of instrumentation and data analysis and the development of methods of experimental analysis for testing theories and hypotheses. Laboratory (F, Sp)

1G3113 Energy Conversion I. Prerequisite: 3613, Engineering 2613. Survey of methods of energy conversion; field-energy force relationships, equations of motion, incremental motion transducers, transformer theory; introduction to rotating machines. (Sp)

3223 Microprocessor System Design. Prerequisite: 2213. Review of clocked sequential circuits; MSI/LSI devices and applications, including registers, buses, combinational functions; use of microprocessors and logic design using microprocessors. Emphasizes assembly of full functional units into workable systems. (F, Sp)

1G3233 Introduction to Solid State Electronic Devices. Prerequisite: 3613. Introduction to quantum mechanics, crystal properties and growth of semiconductors, energy bands in solids, charge carriers in semiconductors, excess carriers in semiconductors, and introduction to diodes and transistors. (F, Sp)

3613 Electromagnetic Fields I. Prerequisite: Mathematics 3113. Electrostatic and magnetostatic fields and sources, boundary conditions; introduction to Laplace’s and Poisson’s equations; quasi-stationary and time-varying fields; Maxwell’s equations and circuit concepts. (F, Sp)

1G3623 Electromagnetic Fields II. Prerequisite: 3613. Guided waves, radiation and energy relations in electromagnetic fields; distributed parameter systems, resonance; elementary electrodynamics. (F)

1G3713 Circuit Analysis II. Prerequisite: Engineering 2613, Mathematics 3113 or enrollment in Mathematics 3113. Descriptions of signal waveforms, circuit differential equations and their solutions, convolution and impulse response, phasors and impedance, resonance, network topology, and formulation of loop, node and state equations. (Irreg.)

1G3723 Electrical Circuits. Prerequisite: 2713, Engineering 2613; corequisite: Mathematics 3113. Analysis of electrical circuits in both the time and the frequency domains. Network theorems, impulse response, convolution, differential equations and second-order transient response. Laplace, z, and Fourier transform analysis of electrical circuits. (Sp)

3773 Electrical and Computer Engineering Circuits Laboratory. Prerequisite: 3723 or concurrent enrollment in 3723. Electrical laboratory procedures, circuit construction, debug and experimental confirmation of the principles of circuit theory. Introduction to use of laboratory instrumentation, including skills in the use of the oscilloscope in the evaluation of DC and AC circuits. Use and application of diodes, operational amplifiers and programmable logic devices. (F, Sp)

3793 Signals and Systems. Prerequisite: 2713, Engineering 2613, Mathematics 3113. Use of transforms in analysis and design, state-space methods, feedback and communication systems, introduction to stochastic processes. (F, Sp)

1G3813 Introductory Electronics. Prerequisite: Engineering 2613. Small and large signal characteristics and models of electronic devices; analysis and design of elementary electronic circuits. (F, Sp)

3873 Electrical and Computer Engineering Electronics Laboratory. Prerequisite: 3773, 3813, Engineering 2003. Electronic analog circuit design, simulation construction, debugging and measurement of circuit performance quantities using advanced instrumentation techniques, circuit reliability theory; independent design skills development and technical writing. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Projects covered will vary. Deal with concepts not usually presented in regular coursework. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student’s field. (F, Sp, Su)

4G113 Analysis of Electrical Transmission. Prerequisite: 3113. Transmission and distribution of electrical energy, particularly addressing electrical transmission systems in the competitive energy market. (F)

4G173 Electric Power Laboratory. Prerequisite: 3113. Laboratory (Sp)

4213 Digital Signal Processing (Slashlisted with 5213). Prerequisite: 3793. Discrete-time linear systems, finite duration impulse response digital filters,
Management” M.S. area of concentration. A written report, to be graded by a member of the graduate faculty, is required. Twelve credit hours required in this area of concentration prior to an internship. (Su)

G5163 Generation Resource Scheduling and Portfolio Optimization. Prerequisite: 4113 and Engineering 3293. Optimization techniques, including economic dispatch and unit commitment; various financial instruments such as forward contracts and futures; and risk management. (F)

G5173 Generation Resource Planning for Energy Systems. Prerequisite: 5163, Engineering 3293 and 4223. Introduction to, and expansion of, decision-making techniques. (F)

G5213 Digital Signal Processing (Slashlisted with 4213). Prerequisite: 3793. Discrete-time linear systems, finite duration impulse response digital filters, infinite impulse response digital filters, infinite word length effects, spectral analysis, fast Fourier-transforms, two-dimensional signal processing and applications. No student may earn credit for both G5213 and 5213. (F)

G5223 Stochastic Signal Processing. Prerequisite: 4213 or 5213. Stochastic processes, estimation, spectral analysis, optimal filtering and applications. (Sp)

G5243 Digital Logic and Systems: Design and Applications. Prerequisite: Mathematics 3113 or 3333, and graduate standing. Boolean algebra, digital circuit design, fault detection and location in logic circuits, digital logic design, multi-valued logic design, fuzzy logic design. (F)

G5303 Solid State Electronics I. Prerequisite: 3323. Principles and applications of electronic properties of solids for devices with particular emphasis on semiconductor junctions, bulk and field effect devices. (F)

G5304 Solid State Electronics II. Prerequisite: 5303. Fundamentals of solid-state electronic materials processing and characterization with particular emphasis on the thermodynamic stability of materials. (Sp)

G5324 Quantum Electronic Devices. Prerequisite: 3323 or Engineering 2313. Introduction to phenomenological and quantum mechanical theory of solids; introduction to lasers and masers with particular emphasis on the physical mechanisms underlying interactions between electromagnetic radiation and atomic systems. (F, Sp)

G5343 Opto-Electronics. Prerequisite: 3323. Theory and application of lasers and other quantum electronic devices; solid state and gaseous simulated emission devices, nonlinear optics, and other selected topics in quantum electronics. (Sp)

G5353 Fiber Optics. Prerequisite: 3793 and 3813. Principles of optical fiber wave-guiding and losses; sources and detectors; receivers; transmission system design; fiber-based broadband networks. (Sp)

G5383 Integrated Circuit Fabrication Technology (Slashlisted with 4383). Prerequisite: 3323. A treatment of the theory and processes involved in the fabrication of integrated circuits. No student may earn credit for both 4383 and 5383. (F)

G5413 Control Theory. Prerequisite: 4413. Stability, controllability and observability; nonlinear and optimal control; process identification and control applications. (Sp)

G5513 Communication Theory. Prerequisite: 4523. Probability theory, stochastic processes, detection, estimation and prediction of signals in noise. (F)

G5523 Random Signals. Prerequisite: 3793, Engineering 3293. Review of random variables; random vectors. Introduction to random processes; stationarity; ergodicity. Random signals into linear systems. Special processes;
Course Descriptions

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Energy Management (EMGT)

4900 Research for Doctoral Dissertation. (F, Sp, Su)

Energy Management (EMGT)

G6980 Research for Doctoral Dissertation. (F, Sp, Su)

Course Descriptions

ARMA, Markov, Point, Gaussian. Review of parameter estimation. Estimation of random signal parameters. (F, Sp)

G5623 Computer Hardware Design (Slashlisted with 4623). Prerequisite: 3223. Design of modern digital computing circuits, computer arithmetic, number systems, state machines, control units, data transfer, bus interfacing, VHDL language elements and usage, circuit simulation. No student may earn credit for both 4623 and 5623. (F)

G5633 Reconfigurable Computing. Prerequisite: 4623 or 5623. Study and design of modern reconfigurable hardware devices and systems. Internal operation and application of field programmable gate arrays (FPGAs) for computing hardware using VHDL. Static and dynamic reconfiguration. Spacial vs. temporal computing. (Sp)

G5813 Introduction to Biomedical Engineering. Prerequisite: 3793 or Fourier transforms, Zoology 3103, or permission. Introduction and overview of biomedical engineering. Materials are interdisciplinary and include physiology, bioelectric phenomena, biosensors, bioinstrumentation, biosignal processing, physiological modeling, biomechanics, biomaterials, tissue engineering, biomedical imaging. (F)

G5823 Biostatistics. Prerequisite: 3793 and 4273, or permission. Principles, applications, and design of medical instruments commonly used in hospitals. Emphasis is placed on general design concepts, rather than details of specific models. Materials cover principles of sensors, biopotentials, electrodes, flow measurements, and imaging systems. (F)

G5833 VLSI Digital System Design. Prerequisite: upper-division courses in digital logic and digital electronic circuit design, or their equivalents, or permission of instructor; UNIX experience desired. Design of special purpose digital systems using VLSI technology. Inside-chip, rather than between-chip design. CMOS technology emphasized. Project oriented. (Sp)

G5843 Medical Imaging Systems. Prerequisite: 3793 or Fourier transforms, or permission. Fundamental principles of medical image formation, image acquisition and image quality evaluation, and medical imaging modalities, such as radiography, fluoroscopy, computed tomography, ultrasound, MRI, and nuclear medicine will be introduced. Clinical applications and limitations of each modality will also be analyzed. (Sp)

G5883 Professional Project. Prerequisite: 12 credit hours in core courses. Technical training in electrical and computer engineering; as part of M.S. and Ph.D. thesis industrial internship track. A written report submitted to the student’s master’s committee and a two-hour oral examination are required. Maximum of two internships and examinations allowed; grade equivalent to B or better (“S”) required. (F, Sp, Su)

G5973 Special Topics in Electrical Engineering. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit twelve hours. Selected topics of current research interest not covered by regularly scheduled coursework. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; credit required for degree, six hours. (F, Sp, Su)

G5990 Special Studies. 1 to 3 hours. Prerequisite: graduate standing or permission. May be repeated with change of subject matter; maximum credit nine hours. Devoted to special topics in electrical engineering not covered in the regular curriculum or to supervised individual study. (F, Sp, Su)

G6213 Optical Information Processing. Prerequisite: 5213 and 5353. Application of Fourier transforms, linear systems, and diffraction theory to the analysis of optical systems. Emphasis is on the use of optical systems for information processing, including image enhancement, pattern recognition, data processing, optical switching, and computing. (F)

G6283 Advanced Topics in Digital Signal/Image Processing. Prerequisite: 5223 or permission. May be repeated with change of content; maximum credit 12 hours. Selected topics at the Ph.D. level of current research interest not covered by regularly scheduled course work. (Irreg.)

G6813 Advanced Topics in Biomedical Engineering. Prerequisite: 5813, 5823, or 5843. May be repeated with change of content; maximum credit twelve hours. In-depth studies in biomedical engineering. Focus will be on advanced optoelectronic biomedical technologies, such as bioinstrumentation, biomedical imaging modalities. Students will learn the knowledge behind current technology and also R&D methods of applying future technology to clinical and biomedical applications. (Sp)

G6833 Advanced VLSI Design and Applications. Prerequisite: 5833. Design of sophisticated digital integrated circuits; special purpose architectures used where appropriate; “silicon compiler” and hardware description language used; project oriented. (F)

G6973 Advanced Topics in Electrical Engineering. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit twelve hours. Selected topics of current faculty research interest at the Ph.D. level not covered by regularly scheduled coursework. (Irreg.)

Energy Management (ENGR)

1001 Engineering Computing. Prerequisite: Mathematics 1823 or concurrent enrollment. Introduction to computer programming and University computing facilities; program design and development; computer application exercises in engineering. (F, Sp, Su)

1112 Introduction to Engineering. Prerequisite: Mathematics 1523. Engineering fundamentals/problem solving, principles of mechanics, energy balances, simple circuits, graphics, specifications, ethics, contracts, introduction to the engineering library. (F, Sp, Su)

1410 Freshman Engineering Orientation I. Prerequisite: declared major in engineering. All entering freshmen with a declared engineering major are required to enroll. One hour of this seminar a week is in a large group setting where all students meet and cover details on all engineering disciplines. Additional topics would be continuums of majors, success in the College of Engineering, success at the University of Oklahoma, study abroad programs, advising issues, graduate school opportunities, career planning, and information related to technical/honor societies and participation. A second hour a week is a required small group session with an upper-class mentor from the College of Engineering Dean’s Leadership Council. This second hour will focus on basic enrollment and retention strategies such as adding and dropping classes and choosing electives in addition to a weekly topic area. (F)

1420 Freshman Engineering Orientation II. Prerequisite: declared major in engineering. All entering freshmen with a declared engineering major are required to enroll in this spring continuation course. One hour of this seminar a week is in a large group setting where all students meet and cover details on all engineering disciplines. Additional topics would be continuums of majors, success in the College of Engineering, success at the University of Oklahoma, study abroad programs, advising issues, graduate school opportunities, career planning, and information related to technical/honor societies and participation. A second hour a week is a required small group session with an upper-class mentor from the College of Engineering Dean’s Leadership Council. This second hour will focus on basic enrollment and retention strategies such as adding and dropping classes and choosing electives in addition to a weekly topic area. (Sp)

1510 Selected Topics. 0 to 3 hours. Selected topics on current or special topics relating to engineering to be structured for students in engineering and other areas. (F, Sp, Su)

2003 Engineering Practice I. Prerequisite: 1410, 1420, and English 1213. Introduction to basic principles of successful engineering enterprise. (Sp)

2113 Rigid Body Mechanics. Prerequisite: 1112, Physics 2514 and Mathematics 2433 or concurrent enrollment in 2433. Vector representation of forces and moments; general three-dimensional theorems of statics; free bodies; two- and three-dimensional statically determinate frames; centroids and moments of inertia of areas. Absolute motion of a particle; motion of rigid bodies; rotating axes and the Coriolis component of acceleration; Newton’s
2153 Strength of Materials. Prerequisite: 2113. Elementary elasticity and Hookes law; Poisson's ratio; solution of elementary one- and two-dimensional statically indeterminate problems; stresses and strains due to temperature changes; stresses induced by direct loading, bending and shear; deflection of beams; area-moment and moment distribution; combined stresses; structural members of two materials; columns. (F, Sp, Su)

2213 Thermodynamics. Prerequisite: 1112, Mathematics 2433 and Physics 2524 or concurrent enrollment. First and second laws of thermodynamics are developed and applied to the solution of problems from a variety of engineering fields. Extensive use is made of partial differential calculus to interrelate the thermodynamic functions. (F, Sp, Su)

2281 Engineering Co-Op Program (Crosslisted with AME, CH E, C E, CS, ECE, EPHY, E S, G E, I E, P E 2281). Prerequisite: student participation in the program. The Co-Op program provides student placement in jobs outside the University, but in a position related to the students major. On completion of a semester work period, the student submits a brief written report. One hour credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

2313 Structure and Properties of Materials. Prerequisite: 1112, Chemistry 1315 and concurrent enrollment in Physics 2524. The behavior of materials under various conditions and environments is correlated to atomic and molecular structure and bonding. (F, Sp)

2411 Statics. Prerequisite: Physics 2514 and Mathematics 233 or concurrent enrollment in 241. Introduction to basic principles of engineering computing. Topics include forces, moments and resultants, equilibrium, trusses and frames, friction, properties of plane areas, and properties of masses and volumes. (Sp)

2421 Dynamics. Prerequisite: Physics 2514 and Mathematics 2433 or concurrent enrollment in Mathematics 2433. Introduction to basic principles of engineering computing. Topics include kinematics (rectilinear motion, angular motion, curvilinear motion and rigid body motion), kinetics, work and energy, and impulse and momentum. (Sp)

2431 Electrical Circuits. Prerequisite: Mathematics 2423 and Physics 2524 or concurrent enrollment. Introduction to basic principles of electrical circuits. Topics include circuits (DC circuits, AC circuits, resonance, AC transients, DC transients) static electrical fields, static magnetic fields, and electronics (diodes, operational amplifiers). (Sp)

2441 Structures. Prerequisite: Chemistry 1315 and concurrent enrollment in Physics 2524. Introduction to basic principles of engineering structures. Topics include equilibrium phase diagrams, atomic bonding and solid types, electronic structure of atoms, ionic bonding, covalent bonding, metallic bonding, electrical properties (insulators, conductors, energy band, semiconductors), crystalline state and crystallography (unit cell and lattice parameters, seven crystal systems, bravais lattice and atom positions, simple cubic lattice, body centered cubic lattice (BCC), face centered cubic lattice (FCC), hexagonal close packed lattice (HCP), Miller indices of planes and directions, primitive cell, number of atoms per unit cell, interplanar spacing DHKL, close packing of atoms and packing factor, x-ray crystallography), atomic mobility, solid state diffusion and atomic scale defects. (Sp)

2451 Strengths. Prerequisite: Engineering 2411. Introduction to basic principles of engineering strengths. Topics include mechanical properties of metals and alloys (nature of plastic flow, compressive strength, hardness of materials, fatigue test, toughness and impact testing, creep at high temperature, sound velocity in solids and damping capacity, metallurgical variables in material response to stresses), stress and strain, elastic behavior, torsion, beam theory, combined stress, and composite bars and beams, columns. (Sp)

2461 Thermodynamics. Prerequisite: Mathematics 2433 and Physics 2524 or concurrent enrollment. Introduction to basic principles of thermodynamics. Topics include density, pressure, and temperature, the first law of thermodynamics for a system, the first law of thermodynamics for a control volume, the second law of thermodynamics, and psychometrics. (F)

2471 Engineering Ethics. Introduction to basic principles of engineering ethics. Topics include the nature of ethics (the subject matter, normative ethics, conflicts in ethics, descriptive ethics), the nature of engineering ethics, and the issues and topics of engineering ethics (the preamble, the engineers obligation to society, the engineers obligation to employers and clients, the engineers obligations to other engineers). (Sp)

2531 Electrical Circuits II. Prerequisite: Engineering 2431. Introduction to intermediate principles of electrical circuits. Topics include amplifiers, filters, signal conditioning, A/D and D/A conversion, and common digital and analog circuits. (Sp)

3223 Fluid Mechanics. Prerequisite: 2213, Mathematics 2433; concurrent enrollment in 2113 and Mathematics 3113. Coverage of the fundamentals of fluid statics and dynamics. Formulation of the equation of fluid flow, i.e., Navier Stokes Equations, Eulers Equations, Bernoulli Equations, etc. and their application. Examples of ideal fluid flow and viscous fluid flow, such as flow in open and closed conduits. (F, Sp, Su)

TG293 Applied Engineering Statistics. Prerequisite: 1112, 1001 or Computer Science 1313 or 1323, Mathematics 2433. Introduction to probability; one and higher dimensional random variables, functions of random variables, expectation, discrete and continuous distributions, sampling and descriptive statistics, parameter estimation, use of statistical packages. Not available for graduate credit for students in engineering disciplines. (F, Sp, Su)

3401 Engineering Economics. Prerequisite: Mathematics 1823. Introduction to basic principles of engineering economics. Topics include value and interest, cash flow diagrams, cash flow patterns, equivalence of cash flow patterns, unusual cash flows and interest periods, evaluating alternatives (annual equivalent cost comparisons, present equivalent cost comparisons, incremental approach, rate of return comparisons, benefit/cost comparisons, MARR, replacement problems, always ignore the past, break-even analysis), income tax and depreciation, and inflation. (F)

3411 Numerical Methods. Prerequisites: approved Computer Science course (CS, 1313, 1323) and Mathematics 3113. Introduction to basic principles of engineering economics. Topics include roots of non-linear equations, simultaneous linear equations, least squares curve fits, numerical integration, numerical solution to ordinary differential equations. Methods covered: Runge-Kutta method and Newtons method; Caus-Jordan elimination; polynomial least squares fits; trapezoid rule and Simpsons rule; Eulers method and 4th order Runge Kutta method. (Sp)

3421 Engineering Statistics. Prerequisite: Mathematics 2433. Introduction to basic principles of engineering statistics. Topics include combinations and permutations, sample statistics, population models probability distributions, estimation and hypothesis testing. (F)

3431 Electromechanical Systems. Prerequisite: 2431 and 2531. Introduction to basic principles of electromechanical systems. Topics include physical principles of sensing and actuation, types of sensors and actuators, and interfacing analogs. (Sp)

3441 Fluid Mechanics. Prerequisite: Mathematics 2433. Introduction to basic principles of engineering economics. Topics include fluid properties, fluid statics, dimensionless parameters and similitude, control volume equations, open channel flow, and external flow. (F)

3510 Selected Topics. 0 to 3 hours. Prerequisite: upper-division standing. Selected topics on current or special topics relating to the field of engineering. (F, Sp, Su)

1G3723 Numerical Methods for Engineering Computation. Prerequisite: 1112, 1001 or Computer Science 1313 or 1323, and Mathematics 3113. Basic methods for obtaining numerical solutions with a digital computer. Included are methods for the solution of algebraic and transcendental equations, simultaneous linear equations, ordinary and partial differential equations, and curve fitting techniques. The methods are compared with respect to computational efficiency and accuracy. (F, Sp, Su)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the students major program. Cover materials not usually presented in the regular courses. (Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Projects covered will vary. Deal with concepts not usually presented in regular coursework. (Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student's field. (Sp)

G4223 Fundamentals of Engineering Economy. Prerequisite: permission. Introduction to concepts of economic analysis to optimize benefits utilizing multivariate, multistaged mathematical models. Topics include cost and worth comparison, capital costs and sources, time value of money, replacement economics, taxes, economic efficiency of alternate designs, minimum costs and maximum benefits, risk and uncertainty, and economics of work schedules. (F, Sp, Su)

G4510 Selected Topics. 1 to 6 hours. Prerequisite: upper-division or graduate standing. Selected topics on current or special topics relating to engineering. May be structured for students in other areas. (Sp)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G6980 Research for Doctoral Dissertation. (F, Sp, Su)
Engineering Physics (EPHY)

2281 Engineering Co-Op Program (Crosslisted with AME, CH E, C E, C S, ECE, ENGR, E S, G E, I E, P E 2281). Prerequisite: student participation in the program. The Co-Op program provides student placement in jobs outside the University, but in a position related to the student’s major. On completion of a semester work period, the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Projects covered will vary. Deal with concepts not usually presented in regular coursework.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student’s field. (F, Sp, Su)

G4232 Laboratory Glassblowing (Crosslisted with Chemistry 4232). Prerequisite: permission. Discussion of materials and techniques with demonstrations of procedures. Exercises will be performed in the laboratory with special emphasis upon the different types of seals required in the construction of glass apparatus. One hour of lecture and three hours of laboratory will be scheduled each week. Laboratory (F, Sp)

G4990 Special Studies. 1 to 3 hours. Prerequisite: Physics 2424 or 2524, integral calculus, permission. May be repeated with change of subject matter; maximum credit six hours. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Special Problems. Prerequisite: permission. May be repeated with change of subject matter; maximum credit four hours for the master’s degree, or ten hours for the doctoral degree. (F, Sp, Su)

G6970 Seminar. 1 to 3 hours. Prerequisite: permission. May be repeated with change of subject matter; maximum credit four hours for the master’s degree, or ten hours for the doctoral degree. (F, Sp)

G6980 Research for Doctoral Dissertation. (F, Sp, Su)

English (ENGL)

0113 Introduction to College Writing. Course prepares students, who are judged at risk by secondary assessment, for “Principles of English Composition” (ENGL. 1113). Course addresses issues of focus, development, expression, sentence structure, and editing skills. This course does not count for college credit at the University of Oklahoma. (F, Sp)

English for Exchange Students. Designed to meet the needs of international students who are studying at OU for a semester or a year. Review all English skills including pronunciation, vocabulary, listening, writing, and grammar as well as expand students’ knowledge of American cultures. (F, Sp)

1113 Principles of English Composition. Systematic analysis of the components of effective writing, with regular practice and close individual assistance. Study of expository prose models. (F, Sp, Su) [I-ENGL]

1213 Principles of English Composition. Prerequisite: 1113. Systematic analysis of effective argumentative discourse with regular practice and close individual assistance. Study of argumentative prose models. Library research paper required. (F, Sp, Su) [I-ENGL]

1913 Writing for the Health Professions. Prerequisite: 1213. Prepares pre-professionals in the health professions for writing they will do in later coursework and in practice. (F, Sp)

2003 Introduction to World Literature (Crosslisted with Modern Languages, Literatures, and Linguistics 2003). Prerequisite: 1113. Introduction to idea and practice of comparative literary study. Focus will be on a particular body of literature (e.g., Italian post-WWII fiction, French-Canadian poetry of the nineteenth century, etc.) as shaped by other cultures and literature. Texts will be in original language and translation. (Irreg.) [I-IV-WC]

2023 Thematic Approaches to Literature. May be repeated with change of subject matter; maximum credit six hours. Examination of a selected theme in important literary works from classical times to our own. Close attention to the cultural context of each work and to the degree of constancy and change in the treatment of the theme from age to age. (Irreg.)

2033 Special Topics in Women in Literature. Prerequisite: 1113, 1213. May be repeated with change of topic; maximum credit six hours. The study of a particular aspect of women in literature; topics to be examined include: women writing on women’s condition; portraits of women artists; women’s private experiences and public statements in literature; social, intellectual and sexual restrictions experienced by women. (Irreg.)

2113 Intermediate Writing. Prerequisite: 1213. Writing of non-fiction prose in a workshop setting. Reading and analysis of prose models for analysis. (Irreg.)

2123 Creative Writing. Prerequisite: 1213. Introduction to imaginative writing, especially short stories and poems; some analysis of literary models, but major emphasis on student writing. (F, Sp)

2133 Autobiographical Writing. Prerequisite: 1213. Writing essays from personal experience. Reading and analysis of journals, diaries, letters and autobiographies as models for writing. (Irreg.)

2213 Fiction. Introduces fiction as a historical genre in literature. Covered will be sub-genres such as the novel, short story, memoir, travel sketch, etc. Discussion will cover such topics as character, plot and myth in narrative. The emphasis will be on close reading in light of the possibilities of fiction as a genre. (Irreg.) [I-IV-AF]

2223 Poetry. Gives an introduction to the elements and rhetoric of verse. The focus will be on the canon of American and British verse. (Irreg.) [I-IV-AF]

2233 Drama. A study of major Western plays (from Aeschylus to contemporary playwrights) with emphasis on literary dimensions: design, language, characterization, individual forms (such as tragedy, comedy and pastoral). May include consideration of social and literary contexts as well as acting and theatrical conventions. (Irreg.)

2243 Film Narrative. Introduction to basic visual terminology, filmmaking concerns, film theory and aesthetics. Survey of different approaches to narrative filmmaking (for example, genre or auteur). Also discussion of film and society in regards to how one influences the other. (Irreg.) [I-IV-AF]

2313 Introduction to Critical Reading and Writing. Prerequisite: 1213. Focuses on close reading of literary texts using key literary terms and involving some introduction to larger issues such as authorship, textuality, and reception. (F, Sp)

2413 Introduction to Literature. Concentrates on close readings of masterpieces in fiction, drama and poetry. The readings are drawn from periods ancient to modern and may be American, British or Continental. (Irreg.) [I-IV-AF]

2433 World Literature to 1700. A reading of literary works, by types, from classical antiquity to 1700. (F) [I-IV-AF]

2443 World Literature, 1700 to Present. Masterpieces of world literature from 1700 to the modern period. (Sp) [I-IV-AF]

2513 Introduction to Shakespeare. Study of the best-known plays, with emphasis upon the sources of their modern appeal. (Irreg.)

2543 English Literature from 1375 to 1700. A survey of major writers and literary movements from Chaucer through Dryden. (F) [I-IV-AF]

2653 English Literature from 1700 to the Present. A survey of major writers and literary movements from the present (1860) to the present. (Sp) [I-IV-AF]

2713 Introduction to Black Literature in the United States. Prerequisite: 1213 or equivalent. An introduction to Black writing produced in the United States. Introduces students to important texts and their major concerns. Attention is given to the struggle between literature that criticizes racial injustice and literature that celebrates Black cultural identity. (Irreg.)

2733 American Indian Literature: Early and Traditional. Prerequisite: 1113,1213 and one course in American literature or history. A study of earliest forms of American Indian expression in the oral tradition and beginnings of its literature as written in English up to 1945. Special emphasis on unusual world-view and cultural characteristics. In order to appreciate the literature and problems inherent in translating from native languages. (Irreg.)

2743 American Indian Literature: Modern and Contemporary. Prerequisite: 1113,1213 and one course in American literature or history. Features the literature of American Indians written since 1945. Attention is directed to early writers such as Will Rogers and D’Arcy McNeill and to the recent renaissance of contemporary Indian writings by N. Scott Momaday, Leslie Marmon Silko, James Welch and others. (Irreg.)

2773 American Literature. A survey of major American writers and literary movements from the colonial period to the Civil War. (F) [I-IV-AF]

2883 American Literature. A survey of major American writers and literary movements from the Civil War to the present. (Sp) [I-IV-AF]

Unless otherwise noted, the prerequisite for courses in English numbered 3000–4999 is 1213 or the equivalent.

3013 Interdisciplinary Approaches to Literature. May be repeated with change of subject matter; maximum credit six hours. The study of two or more
disciplines, focusing on a narrow historical period, a single major author and other discipline, or a circumscribed topic. (Irreg.)

3023 Thematic Approaches to Literature II. May be repeated with change of subject matter; maximum credit six hours. Close study of a major theme or preoccupation of a literary period in important works of the period. Attention to the relationship of the theme to relevant philosophical, sociological, political, religious and/or cultural thought. (Irreg.)

3033 British Women Writers. A study of themes, literary traditions, and reception of works by British women writers from one or several periods. Considers relevant issues of female authorship, socio-historical contexts, generic conventions and feminist theory. (Irreg.)

3103 Topics in Advanced Composition. Prerequisite: twelve hours of English or permission. May be repeated with change of subject matter; maximum credit six hours. Practice in writing with emphasis on style and strategies of composition. Focus varies: practice in various literary genres; study of rhetoric, practice in various modes; argumentative writing; advanced expository writing. (Irreg.) [I-ENGL]

3113 Theory of English Grammar (Crosslisted with EDEN 3113). Reviews traditional English grammar briefly and then introduces theoretical models for studying language, especially transformational grammar. (F)

3123 Fiction Writing. Prerequisite: 2123 or permission of instructor. Intensive writing of short stories, with class attention to writing process, style, technique, revision and contemporary developments in the genre. (Irreg.)

3133 Poetry Writing. Prerequisite: 2123 or permission of instructor. Conducted in workshop format; emphasizes the preparation of a coherent, chapbook-length manuscript of poems. Students are also required to formulate a personal poetics and to complete selected exercises in translation or adaptation. (Irreg.)

3143 Studies in Literary and Rhetoric. Prerequisite: 1213. Introduces students to current and historical knowledge about literary and rhetoric and their places in modern society. Students also explore the forces (political, economic, racial, cultural) that shape the way literary and rhetoric function in society. (Irreg.) [I-VWC]

3153 Technical Writing. Prerequisite: 1213 and Engineering or hard science majors only. For students of the pure and applied sciences. Focuses on the forms of report writing most frequently encountered in research and industry. (F, Sp, Su)

3163 Writing, Rhetoric and Histories of Technology. Prerequisite: twelve hours of English and permission of instructor. An advanced writing course for any major that focuses on the relationship between current and historical technological change and students' writing practices. Workshop format privileges student writing and redrafting while concurrently studying selected histories of Western rhetoric. (Irreg.)

3173 Histories of Writing, Rhetoric and Technology. Prerequisite: twelve hours of English. Investigates how computers and other digital technologies have changed the ways we write and think. How video and television have changed the ways we write and think. Forms of report writing most frequently encountered in research and industry. (F, Sp, Su)

3183 Authoring in the Information Age. Prerequisite: 1213. Covers authoring information in traditional paper documents, Power Point presentations, and web sites with emphasis on delivery, arrangement/architecture, and design for communicating through language and graphics. Topics include the impact of rhetoric contexts, accessibility and retrieval of information, and usability testing. (Irreg.)

3213 Special Topics in Fiction. May be repeated with change of subject matter; maximum credit six hours. Presents a fictional type or problem in fiction for an advanced level of study within a specific genre (e.g., Henry James' fantastic stories, works by several authors in a genre (e.g., violence in post-World War II novels), topics such as myth in a period of fiction and the consideration of recent developments in novel writing. (Irreg.)

3223 Oklahoma Writers/Writing Oklahoma. Prerequisite: 1213. An introduction to regional writing about Oklahoma. Focus on Oklahoma culture as a source of literature, and the creative work of course participants. (Irreg.) [I-VWC]

3233 Special Topics in Drama. May be repeated with change of subject matter; maximum credit six hours. A study of a particular literary aspect of drama. This may include the pursuit of a particular theme through several periods, or concentrate on a particular age or focus on the dramatic works of single or related playwrights. (Irreg.)

3243 Special Topics in Film. May be repeated with change of subject matter; maximum credit six hours. Sophisticated concerns involving film: the works of specific directors (Bergman, Fellini, Kubrick, etc.); the relationship of film to literature; the writings of notable film theorists (Bazin, Eisenstein, etc.) or critics (Mast, Kael, Sarris). (Irreg.)

3253 Special Topics in American Indian Literature. May be repeated twice with change in subject matter. Explores a major literary or cultural aspect of American Indian literature such as the Five Civilized Tribes, Eastern tribes, the Literature of Massacre, autobiographical writing, fiction and poetry. (Irreg.)

3263 Women and Film. Prerequisite: 1213. Focus on the representation of women on screen and the role of women behind the camera from the late 19th century through the present day. Readings will include major essays in feminist theory including sociological, psychoanalytic, semiological, and cultural approaches. (Irreg.)

3273 Comic Theory and Practice Through Film. Prerequisite: 1213. Through readings in comic theory and film, an examination of the comic response to life, celebrating our capacity to endure rather than to aspire and suffer. Forms of comedy to be examined include satire, black humor, farce, romantic comedy, festivity comedy, comedy of manners, burlesque, the carnivalesque, and women's laughter. (Irreg.)

3283 Tribally Specific Approaches to Native-American Literatures. Prerequisite: 1213. May be repeated once with change of content; maximum credit six hours. Literary oeuvre of a single American Indian tribe or examines the aesthetics of tribal nationalism as they apply to native-authored literary works. (Irreg.)

3313 Introduction to Literary and Cultural Studies. Prerequisite: 2313. Focuses on relationships among different genres and media and between different forms and “levels” of culture, and on issues of cultural and multicultural interpretation. (F, Sp)

3323 Gender and Culture Texts. Considers gender to be a critical term in the study of culture. Readings consists of two groups of texts: theoretical and critical writings about gender and other texts (literary, cinematic, popular/mass cultural) in which, or by means of which, gender plays a role. (Irreg.) [I-WAC]

3333 Literature and Psychological Criticism. Using the methods of discursive analysis, examines the cultural situation in which particular psychological perspectives emerge in relation to experience and understanding, with an emphasis on the psychological school appearing in the late nineteenth and early twentieth centuries. Explore the assumptions central to a psychological theory and the characteristic language in which it is set forth. Content may include the application of one or more psychological perspectives (theories) to the understanding of both literary works and cultural phenomena in general. (Irreg.)

3343 Literature of Empire. Survey of literary and nonliterary discourse about and relating to European colonies since the Renaissance. Study of colonial and postcolonial fiction, poetry, drama and criticism from Asia, Africa, the Americas, Australasia and Europe, concentrating on English-language sources. (Irreg.)

3353 American Indian Nonfiction Writing. Examines the various forms of recorded oratory, nonfiction writing by American Indians. Includes autobiography, political and social writing, newspaper reportage, philosophy, anthropological and historical writings, humor and other kinds of writings by early and present-day American Indians. (Irreg.)

3363 Films and Context. Explores film within a particular period or milieu. Attention is given to production styles, prominent actors and studio influence within a definable setting such as American films in the 1930s. (Irreg.)

3373 Television: A Critical Approach. A critical investigation of commercial television as a medium of popular culture. Explores various genres of TV, the history of the medium and the forces that shape its techniques and direction. (Irreg.)

3383 Politics and Literature. Explore political theories of literature as well as political contexts and functions of literary works. May focus on a politically well-defined period, one or more specifically political genres, politics of particular literary movements, or on individual authors. (Irreg.)

3403 The Graphic Novel. Study of the works of Spiegelman, Pekar, Moore/Gibbons, Gaiman/McKeown, Curb and other graphic novel authors. Comparison with prose fictions having a strong visual element and possibly with films. (Irreg.) [I-VAF]

3413 Science and Culture Texts. Using the methods of discursive analysis, examine the interrelationship between scientific disciplines and cultural texts and contexts with emphasis on the dynamic interplay between literary and scientific texts. (Irreg.)

3423 Film and Other Expressive Forms. Examines from practical and theoretical perspectives the relationship between film and another area of creative expression such as the novel, theatre, painting and photograph. (Irreg.)

3433 Foundations of Indic Culture and Civilization. Introduction to central religious, philosophical and literary writings of India from the Rg Veda through the Bhagavad Gita. (Irreg.) [I-VSNW]

3453 Afro-Caribbean Literature and Cultural Consciousness: From Alienation to Voice. Prerequisite: 1213. Explores select Afro-Caribbean writings by male and female writers through the historical and cultural influences that have shaped the production of this literature. Attention will be
given to the literary style of the writers who represent various aspects of Caribbean experience. (Irreg.)

3463 American Fiction. Prerequisite: 1213. Historical survey of major American fiction, both novels and shorter fictional forms, from the Federal period to the present. Special attention is given to the uniqueness and diversity of themes and forms during the nineteenth and twentieth centuries when fiction came to dominate American literary production and consumption. (Irreg.) [IVW]

3473 American Nonfiction. Prerequisite: 1213. Historical survey of many modes of literary nonfiction writing in the U.S., including autobiography, letters, journalism, political essays, speeches, and other forms, from the Colonial period to the present. Questions in rhetoric, form and audience in nonfiction writing will be addressed. (Irreg.) [IVW]

3483 Native American Writers. Prerequisite: 1213. May be repeated once with change of content; maximum credit six hours. Investigates the ways native American writers reflect their cultural histories and thoughts systems through their writing. By focusing on the emergence of native literature over the past three decades or on native writers of Oklahoma, students will learn how native traditions have been translated into literature. (Irreg.) [IV-NW]

3513 Medieval English Literature. Intensive study of some of the major literary works of medieval England with attention to the relation between the literature and its social, intellectual and cultural contexts. Readings in various genres will include such works as Chaucer and the Green Knight, Everyman, Piers Plowman, Mort, e d'Arthur, and The Canterbury Tales. (Irreg.) [IVW]

3523 Sixteenth-Century English Literature. Intensive study of some of the major literary works of sixteenth-century England with attention to the relation between the literature and its social, intellectual and cultural contexts. Readings will include works in various genres by such writers as Spenser, Sidney, Shakespeare, Marlowe, More. (Irreg.)

3533 Seventeenth-Century English Literature. Intensive study of some of the major literary works of seventeenth-century England with attention to the relation between the literature and its social, intellectual and cultural contexts. Readings will include works in various genres by such writers as Donne, Herbert, Milton, Marvell, Bacon, Jonson and Webster. (Irreg.) [IVW]

3543 Eighteenth-Century English Literature. Traces the literary history of English literature from the end of the Renaissance to the rise of romanticism, showing in diverse genres the appeal of a return to classical standards at the start of the period and a disintegration of this impulse at its end. Through major selected texts, it will investigate the problems and processes of literary change. (Irreg.) [IVW]

3573 Arthurian Legend and Literature (Crosslisted with Modern Languages and Literatures 3573). Examination of the legend of King Arthur in European literature. Concentrate on the historical Arthur, followed by major portion of semester on medieval and modern literary texts concerning Arthur and the Round Table. All texts read in English. (Irreg.) [IVW]

3613 Nineteenth-Century English Literature. Intensive study of the major literary works of nineteenth-century English—the Romantic and Victorian periods—with attention to the relation between the literature and its social, intellectual and cultural contexts. Readings will include work in various genres by such writers as Wordsworth, Austen, Dickens, Browning, Eliot, Carlyle and others. (Irreg.) [IVW]

3623 Twentieth-Century English Literature. Intensive study of some of the major literary works of twentieth-century England with attention to the relation between the literature and its social, intellectual and cultural contexts. Readings will include works in various genres by such writers as Conrad, Yeats, Eliot, Joyce, Woolf, Synge, Shaw, Auden, Waugh, Ford, etc. (Irreg.) [IVW]

3643 Special Topics in Non-Western Literature and Culture. Prerequisite: 1213. Examines a broad range of potential topics, including particular practices and/or writers designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular classes. (Irreg.)

3653 The Bible as Literature. Interpreting the Bible as literature. Although much class time will be spent developing readings of individual books, a number of critical issues that affect the ways to approach the project of understanding the Bible will also be considered. (Irreg.)

3713 Introduction to American Studies. An introduction to the main currents in American thought as exemplified by literary and nonliterary works (emphasis on the latter). Readings may include works from history, philosophy, art, science and other areas. (Irreg.) [IVW]

3723 Mysteries and Case Histories. Through a discussion of detective fiction and Freudian case histories, the rise of secular interpretations of the universe and human nature in the 19th century will be investigated. How detective fiction teaches us to read the universe in an age after Darwin will be explored. (Irreg.) [IVW]

3813 Science Fiction. Prerequisite: 1213. An introduction to a major genre of popular culture. Focuses on the philosophical, social, and creative values of science as a central constituent of modern life. Students explore the social, moral, and political issues at stake in science fiction’s critique and occasional celebration of scientific culture. (Irreg.) [IVW]

3833 Introduction to American Drama. Prerequisite: 1213. A survey of major American plays and playwrights, dramatic theory and the theatrical institutions that supported and disseminated them from the Federal period to the present. Special emphasis on the changing social context of the theater. (Irreg.) [IVW]

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular classes. (Irreg.)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student’s field. (Irreg.)

4003 Movements in World Literature (Crosslisted with Modern Languages, Literatures, and Linguistics 4003). Prerequisite: junior standing. May be repeated with change of subject matter; maximum credit nine hours. Focuses on texts within a literary movement (literature other than canonical American or British). Also attention to critical and theoretical questions about concepts such as romanticism, national building, national identity, etc. (Irreg.) [IVW]

4013 Major Figure (with subtitle). May be repeated with change of subject matter; maximum credit six hours. The major figure designated in the subtitle is studied in depth: a major portion of his/her works are covered; significant critical approaches will be presented. (Irreg.)

4023 Literary Movements. May be repeated with change of subject matter; maximum credit six hours. A course on literary movements or groups of authors who are related through their particular interests in certain distinct or philosophical ideas: the Metaphysical Poets, the Fugitive Writers, etc. (Irreg.)

4033 Indigenous Political Writing. Prerequisite: 2733 or 2743 or permission of the instructor. Examines key issues of American Indian politics and literature, exploring how they continue to shape the American Indian world in the present. Also considers how North American Indian politics relate to broader discussions of indigenous peoples and literatures around the world. (Irreg.)

4133 History of the English Language. Traces the development of the English language from its Indo-European origins through its present state. Special attention will be paid to changes in grammar and vocabulary. (Irreg.)

4203 Special Topics in Literary Forms. May be repeated with change of subject matter; maximum credit six hours. Generic approach to literary forms; exact subject material (eighteenth-century satire, Western novel, gothic fiction) will vary from course to course. (Irreg.)

4233 Major Figures in Theory. Intensive exploration of the work and influence of one or a small number of literary or cultural theorists. Texts typically will encompass primary reading in a theorist or group of theorists and ancillary readings in the work of writers or other theorists who show the theorist(s). (Irreg.)

4243 Issues in Cultural Studies. Isolate significant issues in the theoretical working out and practice of cultural studies, using the methods of discursive analysis. Focus on recent attempts in the humanities to define culture, formulate post-colonial critiques of culture, and other such issues in feminism and cultural theory that are part of the working out of discourses about culture and society. (Irreg.)

4253 Introduction to Film Theory. Introduction to basic issues of film theory as seen by classical and contemporary film theorists. (Irreg.)

4273 Women Writers. Prerequisite: 1213. May be repeated twice with change of content; maximum credit nine hours. A study of women’s writings from one or several periods. Approach may be thematic, generic, regional, historical, etc., and/or will incorporate critical approaches including feminist theory and criticism. (Irreg.)

4303 Special Topics in Criticism. May be repeated with change of subject matter; maximum credit six hours. Selected studies in literary criticism, including the criticism of film. The exact subject matter will vary from instructor to instructor. (Irreg.)

4323 The Harlem Renaissance. Prerequisite: 1213. Examines the literature, culture, and politics of the Harlem renaissance. In addition to texts of the 1920s, the course considers the contexts out of which the movement emerged, as well as its effects in the U.S. and abroad. (Irreg.)
G4343 The Indian in American Popular Culture. Prerequisite: 1213 or equivalent. Explores the various appearances and roles, stereotyped or otherwise, American Indians have traditionally been pigeonholed into throughout America's five centuries of recorded history. Covers Captain John Smith, Colonial era, Romantic period of Cooper and Longfellow, and modern writers Waters and Bregger. (Irreg.) IV-W/W

G4373 Black Literary Form and Cultural Expression. Prerequisite: 1213. Compare and contrast the relationship between literary form and cultural expression by analyzing Black literature produced in two different contexts: the United States and the Caribbean. Examine writing from the literary movements known as the “Harlem Renaissance,” “Negritude,” and the “Black Arts.” (Irreg.)

G4383 Civilization and Diaspora. Prerequisite: 1213. Examines literary and cultural forms from the African Diaspora (the Black population outside of continental Africa) offering alternative definitions of civilization, literary and progress. Define and explore what is called Diaspora literary: linguistic, philosophical and cultural ways of knowing that come out of African Diaspora experience. (Irreg.) IV-W/W

G4403 Special Topics in Comparative Literature. May be repeated with change of subject matter; maximum credit six hours. Topics will vary. Literature studied may include combinations of foreign (in translation) and English and/or American literature. Instructor’s approach may be thematic, regional, historical, generic, etc., but the course will include intensive cross-cultural explorations of literature. (Irreg.)

G4423 Modern European Novel. Consideration of the works of five major European novelists of the last one hundred years. Course will be comparative and founded upon such themes as loss of self, alienation and the artist’s search for new techniques and structure. (Irreg.) IV-W/W

G4433 Modern British and European Drama. A survey of British and European drama from Ibsen and Shaw to the present day. (Irreg.)

G4443 Contemporary Literature. Intensive study of major literary works since World War II in English, American and outside the Anglo-American tradition. Readings will include works in various genres by such writers as Barthelme, Fowles, Marquez, Larkin, Merrill, Solzenitnys, Gass, Sartre, etc. (Irreg.)

G4453 Literature and Landscape. Exploration of writers, gardeners, farmers and painters who translated nature into art. Texts range from ancient to modern world and may include classical, Renaissance, Romantic, and American works in which environmental issues are important. (Irreg.)

G4463 Linguistics and Semiotics. Trace the study of synchronic linguistics in phonology, syntax and semiotics in the twentieth century and examine the field of semiotics based on this development. (Irreg.)

G4503 Backgrounds of the Renaissance. Prerequisite: 1213. A study of classical and continental authors esteemed in the English Renaissance. Focus on Homer, Virgil, Ovid, Petrarch, Erasmus, and Machiavelli in the contexts of their cultures as well as their contributions to culture. (Irreg.) IV-W/W

G4513 Chaucer. Examines the poetry of The Canterbury Tales and one or two of Chaucer’s earlier narrative poems. Special emphasis will be given to the social, literary and cultural backgrounds to Chaucer’s work. (Irreg.)

G4523 Shakespeare Comedies. Prerequisite: junior or senior standing. Close reading and analysis of Shakespeare’s comedies and histories. Selected criticism, 1600 to the present. Historical background and Shakespeare’s theatre. Dramatic traditions, movie interpretations, performance theory and acting. Emphases and reading lists vary from year to year. (Irreg.) IV-W/W

G4533 Shakespeare Tragedies. Prerequisite: junior or senior standing. Close reading and analysis of Shakespeare’s tragedies and lyric poetry. Selected criticism, 1600 to the present. Historical background and Shakespeare’s theatre. Dramatic traditions, movie interpretations, performance theory and acting. Emphases and reading lists vary from year to year. (Irreg.) IV-W/W

G4543 Tudor and Stuart Drama. Intensive study of the drama of Shakespeare’s contemporaries, with emphasis on the plays of Christopher Marlowe and Ben Jonson. Attention to dramatic forms, social issues, cultural context, language and performance. Readings will include plays by Marlowe, Jonson, Webster, Heywood, Fletcher, Ford. (Irreg.)

G4553 Milton. Close reading and analysis of selected poetry and prose, with emphasis on Paradise Lost. Study of literary forms, cultural myths, theology, ethics. Themes of loss, guilt, free will, male-female relationships. (Irreg.)

G4563 Drama of the Restoration and Eighteenth Century. Changes in the theatre, the audience and critical theory; foreign and native models; moral reform and political censorship; such genres as heroic, tragedy, wit, comedy and sentimental drama; such playwrights as Dryden, Kibay, Congreve, Farquhar, Rowe, Steele and Sheridan. (Irreg.)

G4573 Eighteenth-Century English Novel. Sources, early reputation and emerging critical theories; economic, moral, feminine influences; realistic, psychological, sentimental, gothic and satiric directions; technical developments in structure and point of view; works by such novelists as Richardson, Fielding, Smollet, Sterne and Jane Austen. (Irreg.)

G4583 Major Authors in Eighteenth-Century British Literature. Prerequisite: 1213. May be repeated with change of subject; maximum credit six hours. Examines the works of major writers from the long 18th century (ca. 1660-1832), including poets, dramatists, novelists, or essayists such as Aphra Behn, John Dryden, Eliza Haywood, Jonathan Swift, Alexander Pope, Henry Fielding, Samuel Johnson, Jane Austen, or Mary Wollstonecraft. (Irreg.)

G4613 Nineteenth-Century English Novel. Historical and aesthetic study of the novel in relation to main developments in English literary history during the period. Emphasis, however, is on the intrinsic literary values in the novels read. (Irreg.) IV-W/W

G4623 English Romantic Poetry. Prerequisite: 1213 or equivalent. May be repeated once with change of content; maximum credit six hours. Intensive study of the most important poems and criticism of early Romantic poets and later Romantic poets. (Irreg.)

G4643 Twentieth-Century English Novel. Intensive study of the major British and American novelists of the last one hundred years. Prerequisite: six hours of 2000-3000 level writing courses and permission of instructor. May be repeated once; maximum credit six hours. Emphasis, however, is on the intrinsic literary values in the novels read. (Irreg.) IV-W/W

G4653 Twentieth-Century English Poetry. A survey with emphasis on Yeats, Pound, Eliot, Lawrence, Graves, Auden, and Dylan Thomas. (Irreg.)

G4713 Major Authors in Nineteenth-Century American Literature. Prerequisite: 1213. May be repeated with change of subject; maximum credit six hours. Intensive study of one or more major 19th-century American authors such as James Fenimore Cooper, Catharine Maria Sedgwick, Frederick Douglass, Walt Whitman, Nathaniel Hawthorne, Ralph Waldo Emerson, Harriet Beecher Stowe, Emily Dickinson, or Mark Twain. (Irreg.)

G4722 Issues in Nineteenth-Century American Literature. Prerequisites: 1213. May be repeated with a change of subject; maximum credit six hours. Intensive study of 19th century American texts in a specific literary or historical context, such as the Civil War and Reconstruction, the women’s rights movement, transcendentalism, regionalism or sentimentalism. (Irreg.)

G4733 American Naturalism and Realism. Major American novelists from the Civil War to the end of World War I, including Howells, James, Twain, Crane, Dreiser, Norris and Wharton. (Irreg.)

G4813 American Drama. An examination of representative American plays ranging from naturalistic tragedy to farce. Emphasis is on the since 1916. (Irreg.)

G4823 American Novel Since 1920. Major authors and schools in American fiction including Fitzgerald, Hemingway, Faulkner, Steinbeck and others selected by the instructor. (Irreg.)

G4833 Twentieth-Century American Poetry. A survey from Frost to the present with emphasis on major figures in each of three generations. (Irreg.)

G4853 The English Capstone Course. Prerequisite: 1113, 1213, and 2433 or 2443 or 2543 or 2653 or 2773 or 2883, plus twelve hours. Combine English majors from diverse tracks to work on a topic involving major cultural issues, artifacts and texts. Projects include a significant amount of writing demonstrating the students’ accomplishments in analyzing literature. (F, Sp) [V]

G4993 The Teaching of English (Crosslisted with EDEN 4913). Prerequisite: 3222, nine hours of education, and senior standing. To be taken preferably the semester immediately preceding student teaching. Development of skills in teaching the language arts at the secondary level. Introduction to current trends, professional literature and resource materials. Practice in presenting model lessons. Written reports. Sp

4923 Advanced Fiction Writing (Slashlisted with 5923). Prerequisite: six hours of creative writing and permission of instructor. May be repeated once; maximum credit six hours. Work at an advanced level for qualified students. Intensive writing, peer criticism, revision, and reading in current markets with the goal of producing publishable work. No student may earn credit for both 4923 and 5923. (Irreg.)

4933 Advanced Poetry Writing (Slashlisted with 5933). Prerequisite: six hours of creative writing and permission of instructor. May be repeated once; maximum credit six hours. Intensive writing, peer criticism, revision, and reading in current markets with the goal of producing publishable work. No student may earn credit for both 4933 and 5933. (Irreg.)

4943 Advanced Creative Nonfiction Writing (Slashlisted with 5943). Prerequisite: six hours of 2000-3000 level writing courses and permission of instructor. May be repeated once; maximum credit six hours. Intensive writing, peer criticism, revision, and reading in current markets with the goal of producing publishable creative nonfiction. No student may earn credit for both 4943 and 5943. (Irreg.)
Course Descriptions

4970 Special Topics in World Literature Today. 1 to 3 hours. Prerequisite: 1213 and permission of instructor. May be repeated with change of topic; maximum credit six hours. In-depth study of selected contemporary international writers/jurors who visit campus as part of the Neustadt and/or Puterbaugh symposiums for World Literature Today. (Irreg.)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topics not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

Courses in English numbered 5000 and above are primarily for graduate students who have had eighteen hours of English, or the equivalent, but are open by permission to seniors.

G5003 Seminar—Special Topics in English, American or Comparative Literature. Prerequisite: graduate standing. May be repeated with change of subject matter. Topics in theoretical and historical problems of English, American or Comparative literature may be repeated. Maximum credit twelve hours. Special topics focusing on Native American cultures, including literature, drama, philosophy, and thematic approaches to the subject. May be repeated three times with change of topic, maximum credit nine hours. Address complementary and postcolonial literatures. May be repeated three times with change of topic; maximum credit nine hours. (Irreg.)

G5113 Teaching College Composition and Literature. Prerequisite: graduate standing. In a workshop format, students will apply readings in composition and literary theory to such practical concerns of freshman English teaching as course planning, assignment preparation, grading and discussion techniques. (Irreg.)

G5133 Teaching Technical Writing. Prerequisite: graduate standing. Introduction to the types of writing professional engineers and scientists are expected to do and methods of teaching these forms of writing. In addition, students will attend classes being taught by the professor and have the opportunity to design and teach some workshops as well as evaluate the undergraduates' work. (F, Sp)

G5223 Seminar—Film. Prerequisite: graduate standing. Will involve reading and analyzing the works of the more sophisticated film theorists and critics as well as considering the work of the teaching of film (the auteur theory; film history; film genres; visual literacy; film and society; film as narrative; non-narrative forms). (Irreg.)

G5243 Women Writers. Prerequisite: graduate standing. May be repeated twice with change of content; maximum credit nine hours. Topics vary. Focus is on women's achievements, the context of the ages in which they wrote, and on critical approaches including feminist theory and criticism. (Irreg.)

G5313 Literary Criticism. Prerequisite: graduate standing. May be repeated with change of content; maximum credit nine hours. A comprehensive literary criticism, the study of a particular movement or related movements in literary criticism; or a study of a particular issue or related issues in literary criticism. (Sp)

G5323 Contemporary Cultural Studies. Prerequisite: graduate standing. May be repeated once with change of topic; maximum credit six hours. Addresses variable topics and issues in cultural studies such as popular culture, mass media, subcultures, gender codes, visual media, minority literatures, global cultural, and post-modernization. (Irreg.)

G5333 Native American Women Writers. Prerequisite: graduate standing. Reading or viewing poetry, fiction, autobiography, and film by Native American women. Examining traditional Indian societies' conceptions of gender, and the relationship between Western feminism and Native women's political experiences. (Irreg.)

G5343 Native American Fiction. Prerequisite: graduate standing. May be repeated twice with change of subject matter; maximum credit nine hours. Study of fiction written by Native American authors in the twentieth and twentieth century. The course may include native authors from throughout the Americas and study the cultural contexts of Native American fiction. This course may also focus on particular themes and authors. (Irreg.)

G5353 Native American Poetry. Prerequisite: graduate standing. May be repeated twice with change of subject matter; maximum credit nine hours. Study of poetry written by Native American authors in twentieth century. Course may include native authors from throughout the Americas (including poetry in indigenous languages) and study the cultural contexts of Native American poetry. This course may also focus on particular themes and authors. (Irreg.)

G5363 Native American Non-Fiction and Criticism. Prerequisite: graduate standing. May be repeated twice with change of subject matter; maximum credit nine hours. Study of Native American cultures by means of non-fiction and scholarly-critical writing. Course may focus on issues of methodology, theory, and cultural studies. Course may also focus on particular themes and authors. (Irreg.)

G5373 Graduate Topics in Native American Literature. Prerequisite: graduate standing. May be repeated with change of subject matter; maximum credit twelve hours. Special topics focusing on Native American cultures, including literature, drama, philosophy, and thematic approaches to the subject. Course may also focus on particular themes, movements, and authors. (Irreg.)

G5403 Issues in Composition, Rhetoric and Literacy. Prerequisite: graduate standing. An overview of contemporary research and theory in the study of written composition, with emphasis on rhetorical theory, the interrelationship of writing and reading, and the politics of defining literacy. (Irreg.)

G5413 History of Modern Composition Studies. Prerequisite: graduate standing. A survey of twentieth century scholarship on composition theory, including composing process theory and discourse theory. (Irreg.)

G5421 Classical Rhetorical Theory. Prerequisite: graduate standing. Historizing of rhetoric from ancient Egyptians to Greek sophists, Plato, Aristotle to Rome and Augustine. Includes examination of the ways “history” and cultural studies comprise the area. (Irreg.)

G5433 Eighteenth and Nineteenth-Century Rhetoric and Composition Theory. Prerequisite: graduate standing. An introduction to the rhetorical thought of eighteenth and nineteenth-century Britain and America, focusing on the development of rhetorical theories within the contexts of (1) eighteenth-century Scottish moral philosophy, (2) English romanticism, and (3) the emergence and development of higher education in nineteenth-century America. (Irreg.)

G5443 Twentieth-Century Rhetoric and Composition Theory. Prerequisite: graduate standing. A survey of twentieth-century scholarship on rhetoric and composition theory, beginning with the rhetorical theories of Kenneth Burke, with emphasis on the mid-century revival of rhetoric and composition theory through current changes brought about by technology and feminism. (Irreg.)

G5453 Special Topics in Rhetoric, Composition, and Literacy. Prerequisite: graduate standing. May be repeated three times with change of content; maximum credit nine hours. Addresses topical issues being debated within the profession. (Irreg.)

G5463 Rhetoric and Technology. Prerequisite: graduate standing. A graduate seminar designed to explore the impact of computer technology on rhetorical theory. Examines electronic literacy in terms of the following themes: history and writing technologies; the politics of writing instruction in computer-mediated classrooms; rhetoric and issues of difference; and intellectual property in a computer age. (Irreg.)

G5473 Women's Rhetorics and Writing Practices. Prerequisite: graduate standing. Analysis of selected historical and current work by women according to histories and theories of written composition theory, rhetorical theory, and literacy practices. These issues are studied by analyzing how women interact with different forms of communication (e.g., speaking, print, film, video, computer graphics). (Irreg.)

G5483 Rhetorical Perspectives on Literacy. Prerequisite: graduate standing. Inquiring into the meaning of “literacy” in the electronic age where text, graphics, and video “interanimate” each other. It asks: what are the boundaries of literacy? What academic fields does its study encompass? What is the current benchmark for illiteracy: How have different societies defined functional literacy? (Irreg.)

G5523 Seminar—Medieval Language and Literature. Prerequisite: graduate standing. May be repeated once with change of subject matter. Topics vary. Special studies in Chaucer’s contemporaries and successors. Medieval drama, romance and lyric poetry. (Irreg.)

G5533 Seminar—Sixteenth-Century English Literature. Prerequisite: graduate standing. May be repeated twice with change of subject matter. Special studies in major figures, genres, themes and movements of the sixteenth century. (Irreg.)

G5543 Seminar—Seventeenth-Century English Literature. May be repeated twice with change of subject matter. Special studies in major figures, genres, themes and movements of the seventeenth century. (Irreg.)

G5553 Postcolonial Theory and Writing. Prerequisite: graduate standing. Theories of postcolonialism as they have emerged from poststructuralist theory in the west, and from various political-literary movements in the non-Western world. Also focuses on the literatures of postcolonial cultures in Asia, Africa, Latin America, the Caribbean, Australia, and New Zealand. (Irreg.)

G5603 Seminar—Eighteenth-Century English Literature. Prerequisite: graduate standing. May be repeated twice with change of subject matter. Special studies in major figures, genres, themes and movements of the eighteenth century. (Irreg.)

G5613 Seminar—Nineteenth-Century English Literature. May be repeated twice with change of subject matter. Special studies in the Romantic and Victorian periods designed to promote original research and criticism. (Irreg.)

G5623 Seminar—Twentieth-Century English Literature. May be repeated twice with change of subject matter. Topics vary. Special studies in authors, literary types and literary movements. (Irreg.)

G5803 Seminar—Twentieth-Century American Literature. Prerequisite: graduate standing. May be repeated twice with change of subject matter. Topics vary. Special studies in American authors, ideas and literary types. (Irreg.)

G5813 Blackness, Coloniality, Gender. Prerequisite: graduate standing. Taking an historical and cultural approach to Black U.S. and Caribbean female writing,
explore the struggle between the "official" cultural contexts and the spaces of counter-cultural resistance. Analyze the terminology “colonial” and “postcolonial” and the current theoretical landscape in which these terms are used. (Irreg.)

G5903 Methods of Graduate Study. Prerequisite: graduate standing. Required of all Ph.D. candidates. An introduction to the use of library resources as relevant to the various aspects of the discipline. Students will pursue individual research projects in their concentrations: literary study, criticism, rhetoric, composition or other areas. (Irreg.)

G5923 Advanced Fiction Writing (Slashlisted with 4923). Prerequisite: graduate standing, six hours of creative writing and permission of instructor. May be repeated once; maximum credit six hours. Work at an advanced level for qualified students. Intensive writing, peer criticism, revision, and reading in current markets with the goal of producing publishable work. No student may earn credit for both 4923 and 5923. (Irreg.)

G5933 Advanced Poetry Writing (Slashlisted with 4933). Prerequisite: graduate standing, six hours of creative writing and permission of instructor. May be repeated once; maximum credit six hours. Intensive writing, peer criticism, revision, and reading in current markets with the goal of producing publishable work. No student may earn credit for both 4933 and 5933. (Irreg.)

G5943 Advanced Creative Nonfiction Writing (Slashlisted with 4943). Prerequisite: graduate standing, six hours of 2000-3000-level writing courses and permission of instructor. May be repeated once; maximum credit six hours. Intensive writing, peer criticism, revision, and reading in current markets with the goal of producing publishable creative nonfiction. No student may earn credit for both 4943 and 5943. (Irreg.)

G5960 Directed Readings in Research. 1 to 4 hours. Prerequisite: graduate standing. May be repeated with change of content; M.A. thesis option maximum credit three hours; M.A. non-thesis option maximum credit six hours; Ph.D. maximum credit nine hours. An individual course, which may not duplicate regular course offerings, of intensive research. Area and problem to be determined by student and directing professor. (Irreg.)

G5980 Research for Master’s Thesis. 2 to 9 hours. Variable enrollment; maximum credit applicable toward degree, six hours. (F, Sp, Su)

G6013 Research Seminars in Composition, Rhetoric or Literacy. Prerequisite: graduate standing. Topics vary. Issues of the historical/philosophical in composition and rhetorical studies; issues of empirical research in composition/rhetorical studies; issues of literacy in composition studies. (F, Sp)

G6103 Research Seminars in Composition, Rhetoric or Literacy. Prerequisite: by permission. Topics vary. A survey of the literature in composition research from 1900 to the present; directed research of an empirical, historical or theoretical nature. (Irreg.)

G6113 Issues in Contemporary Theory and Cultural Studies. Prerequisite: graduate standing. Explores issues in theory and cultural studies during recent decades, focusing on influential figures, major texts, innovative schools and movements, and new problems in the field. (Irreg.)

G6213 Research Seminar on Women Writers. Prerequisite: permission of instructor. May be repeated twice with change of content; maximum credit nine hours. Detailed research on women writers and their contexts in which they write, as well as criticism and theory. (Irreg.)

G6503 Research Seminar in Medieval Literature. Prerequisite: by permission. Involves detailed research in medieval literature; limited to students working on the M.A. and Ph.D. who have taken the seminar in medieval literature. (Irreg.)

G6523 Seminar in the Renaissance. Prerequisite: graduate standing. May be repeated once with change of subject matter; maximum credit six hours. Closely studies texts (e.g., More, Campton, Shakespeare, Milton) and topics (e.g., the Baroque, Colonialism, rhetoric) in English literature, 1465-1700. (Irreg.)

G6703 Research Seminar in American Literature Before 1900. Prerequisite: by permission. Involves detailed research in American literature before 1900; limited to students working on the M.A. and Ph.D. who have taken the seminar in American literature before 1900. (Irreg.)

G6803 Research Seminar in American Literature After 1900. Prerequisite: by permission. Involves detailed research in American literature since 1900; limited to students working on the M.A. and Ph.D. who have taken the seminar in American literature since 1900. (Irreg.)

G6980 Research for Doctor’s Dissertation. (F, Sp, Su)

Environmental Design (EN D)

1011 Introduction to the Built Environment. Introduction of the issues and factors that define quality in the built environment, including a discussion of current trends; a brief survey of the various design disciplines and the professional responsibilities of each. (F)

1133 Graphics I. Prerequisite: 1011, 1511; corequisite: 1524. Introduction to visual communications for the design professions, including technical drawing, empirical perspective, freehand drawing, and an introduction to computer graphics. (Sp, Su)

1511 Studies in Visual Acuity. Corequisite for majors: 1011. An introduction to formal design principles applied to the built environment: architecture, interiors, and landscapes. Attention is given to definitions with emphasis on illustrations to explore a range of applications across cultures, time, and disciplines. Stressed is the use of principles, concepts and techniques to create and communicate relationships among function, technology and context. (F)

1524 Design I. Prerequisite: 1011 and 1511; corequisite: 1133. An introduction to the basic principles and fundamental concepts for the design professions, with emphasis on color theory and application, materials and proportioning systems. (F, Sp)

2013 Human Aspects of Design. An introduction to cultural, social and behavioral factors and their implications for the planning and design of the built environment. (Sp)

2143 Graphics II. Prerequisite: 1133, 1524; corequisite: 2534. Theory and methods of measured perspective and shade and shadow. Continued work in computer graphics, and an introduction to presentation techniques. (F)

2212 Nature and Use of Materials. An introduction to basic building materials: their history, sources, manufacture, properties, products and systems. (F)

2534 Design II. Prerequisite: 1133, 1524; corequisite: 2143. Emphasis on issues of form and space, natural light, climate, and site. An introduction to issues of building design, focusing on landscape, interiors and the building. (F)

Environmental Science (E S)

1112 Introduction to Environmental Science. Prerequisite: permission of instructor. Intended for Environmental Science majors. Designed to develop necessary skills and tools for sound scientific discourse in environmental science studies. Introduction to accessing E S information located in libraries, computer databases, and Web sites will be addressed. Also includes the development of communications, reasoning, writing and computer skills in a variety of activities which include lectures, group discussions, field trips, and computer labs. (F)

2111 Environmental Science Seminar. Prerequisite: 1112. Continuation of 1112. Strong emphasis on presentation skills of scientific materials. Seminars by guest speakers and E S faculty. (Sp)

2821 Engineering Co-Op Program (Crosslisted with AME, CH E, C E, C S, ECE, E NGR, EPHY, G E, I E, P E 2281). Prerequisite: student participation in the program. The Co-Op program provides student placement in jobs outside the University of Oklahoma.
4980 Environmental Science Senior Research. Prerequisite: senior standing. Maximum credit twelve hours. Intensive research investigation of a special environmental science subdiscipline. Enrolled graduate students and members of their research team under the supervision of a faculty member. (F, Sp, Su)

G5010 Environmental Science Problems, 1 to 3 hours. Prerequisite: senior or graduate standing and permission of instructor. May be repeated, maximum credit four hours for a master's program, six hours for a doctoral program including hours taken as part of another graduate degree. Independent or small group study, under the supervision of one or more faculty members. (F, Sp, Su)

G5021 Technical Communications (Crosslisted with Civil Engineering 5021). Prerequisite: CEEs graduate standing or permission of instructor. Focused on enabling students to improve oral and written communications skills. Examines appropriate formats for various technical publications, as well as methods and practices for developing effective oral presentations. Each student will be required to develop an oral presentation about a peer's written project. (F)

G5032 Radiisotope Techniques (Crosslisted with Botany, Civil Engineering, Microbiology 5032). Prerequisite: graduate standing equivalent or permission. Corequisite: 5041. Fundamentals of detection and measurement of ionizing radiation with emphasis on radiotracer experimental design and applications; radiation effects and protection. (Sp)

G5041 Radiisotope Techniques Laboratory (Crosslisted with Botany, Civil Engineering, Microbiology 5041). Corequisite: 5032. Laboratory techniques required for the utilization of radiotracers in experimental work. Laboratory (Sp)

G5114 Aquatic Chemistry (Shared with 4114, Crosslisted with Civil Engineering 4114/5114). Prerequisite: graduate standing. General introduction to aquatic chemistry. Environmental kinetics and thermodynamics in aquatic systems; acid/base, precipitation/solubility, metal complexation and oxidation/reduction reactions; environmental colloidal and solid-liquid interface chemistry. No student may earn credit for both 4114 and 5114. Laboratory (F)

G5232 Wetlands Science and Management. Prerequisite: senior or graduate standing. A comprehensive field-based examination of wetland science, ecology, and management. Major wetland types and resources are examined and the biogeochemical and ecological diversity of wetlands waters, soils, vegetation and fauna is investigated. Biological, physical, chemical, and hydrological aspects of wetland ecosystem structure and function are explored through visits to several field sites. Current issues in wetland valuation, classification, management and identification are considered as well as the evaluation of created, restored and constructed wetlands. Laboratory (Su)

G5283 Environmental Organic Chemistry. Prerequisite: 4114 or permission of instructor. Separation, partitioning, and sorption of organic compounds in aqueous systems; linear free energy relationships; natural organic matter characterization; environmentally pertinent hydrolysis, oxidation, and reduction reactions; disinfection reactions; and aquatic photochemistry. (Sp)

G5324 Environmental Biology and Ecology (Crosslisted with 4324). Prerequisite: graduate standing in Environmental Science. Examines applied environmental biology; biological consequences of environmental impacts; mitigation of environmental impacts via biogeochemical, ecological and microbial processes. No student may earn credit for both 4324 and 5324. Laboratory (F)

4493 Environmental Evaluation and Management (Crosslisted with 5493). Prerequisite: senior standing. Broad overview of natural resources management with attention to techniques used in decision making and analysis. Class discussion and reading include a review of measures used to value natural systems (e.g., benefit cost analysis) and the role of private and public institutions in management. No student may earn credit for both 4493 and 5493.

4813 Environmental Science and Environmental Engineering Professional Practice. Prerequisite: senior standing in environmental science or environmental engineering, 3603 or Civil Engineering 3213, and Civil Engineering 3334. Nature of profession, duties and administrative responsibilities. Organization and management of operating divisions with emphasis on role of environmental professional. Functional approach to planning and implementing public works projects with emphasis on role of environmental professional. (F)

G4863 Environmental Assessment Methodologies (Crosslisted with 5863). Prerequisite: senior standing in CEES or permission of instructor. Develop knowledge of various environmental assessment methodologies or "tools", including assessments of socio-economic, physical/chemical and biological impacts at the pre-project, operational and post-project phases on human and non-human components of the environment. No student may earn credit for both 4863 and 5863. (Sp)

4913 Environmental Science and Engineering Capstone. Prerequisite: 4813, senior standing in Environmental Science or Environmental Engineering, Capstone course dealing with solution of major environmental problems and requiring the application of principles from various subdisciplines of environmental science. The problems will be selected from the several areas of environmental science according to the student's major interest. (Sp)

G5114 Aquatic Chemistry (Crosslisted with 4114, Crosslisted with Civil Engineering 4114/5114). Prerequisite: graduate standing in Civil Engineering 4114). Examine applied environmental biology; biological consequences of environmental impacts impacts; mitigation of environmental impacts via biogeochemical, ecological and microbial processes. No student may earn credit for both 4114 and 5114. Laboratory (F)

G5232 Wetlands Science and Management. Prerequisite: senior or graduate standing. A comprehensive field-based examination of wetland science, ecology, and management. Major wetland types and resources are examined and the biogeochemical and ecological diversity of wetlands waters, soils, vegetation and fauna is investigated. Biological, physical, chemical, and hydrological aspects of wetland ecosystem structure and function are explored through visits to several field sites. Current issues in wetland valuation, classification, management and identification are considered as well as the evaluation of created, restored and constructed wetlands. Laboratory (Su)

G5283 Environmental Organic Chemistry. Prerequisite: 4114 or permission of instructor. Separation, partitioning, and sorption of organic compounds in aqueous systems; linear free energy relationships; natural organic matter characterization; environmentally pertinent hydrolysis, oxidation, and reduction reactions; disinfection reactions; and aquatic photochemistry. (Sp)

G5324 Environmental Biology and Ecology (Crosslisted with 4324). Prerequisite: graduate standing in Environmental Science. Examines applied environmental biology; biological consequences of environmental impacts; mitigation of environmental impacts via biogeochemical, ecological and microbial processes. No student may earn credit for both 4324 and 5324. Laboratory (F)

G5493 Environmental Evaluation and Management (Crosslisted with 4493). Prerequisite: graduate standing. Broad overview of natural resources management with attention to techniques used in decision making and analysis. Class discussion and reading include a review of measures used to value natural systems (e.g., benefit cost analysis) and the role of private and public institutions in management. No student may earn credit for both 4493 and 5493.

G5633 Industrial Hygiene. Prerequisite: graduate standing in engineering or environmental science. Recognition, evaluation and control of occupational health hazards. Dust, noise, gases, vapors, toxic fumes, hazards to vision, respiratory systems, hearing, skin, nervous system, mucous membranes. Laboratory (F)

G5673 Colloid and Surface Science (Crosslisted with Chemical Engineering 5673). Prerequisite: graduate standing or permission of instructor. Capillarity, surface thermodynamics, adsorption from vapor and liquid phases, contact angles, micelle formation, solubilization, emulsions and foams. Applications to be discussed include detergency, enhanced oil recovery and adsorption for pollution control. (Irreg.)

G5863 Environmental Assessment Methodologies (Crosslisted with 4863). Crosslisted with Regional and City Planning 4863/5863. Prerequisite:
Film and Video Studies (FVS)

1013 Introduction to Film and Video. An examination of the history, role, impact, nature and delivery systems of film and video media in the United States and the international community. (F, Sp, Su) [IV-AF]

2013 Film and Video History and Criticism to 1945. Prerequisite: 1013. Survey of world film and video history and approaches to critical analysis of the moving image up to the end of World War II. Emphasizes an understanding of the role of cinema and video on aesthetic, economic, and social developments of life in the twentieth century. (F)

2023 Film and Video History and Criticism 1945 to the Present. Prerequisite: 1013. Survey of Hollywood, independent, and world film and video making since World War II and critical approaches to these media. A study of the aesthetic, economic, and social dimensions of film and video during the twentieth and twenty-first centuries. (Sp)

2123 Acting for the Camera. Prerequisite: 1013. Covers the requirements, techniques and discipline of working on camera for film and/or television as a professional actor. (F, Sp, Su)

3133 Soviet Cinema (Crosslisted with Modern Languages 3133). Prerequisite: 1013. Familiarizes students with the history of film in the Soviet Union, from the silent movies of its beginnings to its manifestation at the present time. No previous knowledge of the Russian language is required. Russian social and political issues explored through film. (Irreg.)

3213 Media Theories and Methodologies. Prerequisite: 2013 or 2023. Familiarizes students with classical film theory that evolved during the early days of cinema up through contemporary film and media theory, as a foundation for understanding and analyzing the ways media shape and reflect culture. (F, Sp)

3223 Topics in Film Genre. Prerequisite: 1013. May be repeated once with different genres; maximum credit six hours. Offers students a systematic in-depth study of one or two specific genres such as westerns, romantic comedy, horror, film noir, and melodrama. (Irreg.)

3233 Filmmakers Up Close. Prerequisite: 1013. May be repeated once with change of filmmakers; maximum credit six hours. An in-depth study of one or two filmmakers through the study of their films. Filmmakers include directors, screenwriters, actors, and others who have a significant role in making movies. (Irreg.)

3243 Hispanic Cinema. Prerequisite: 1013. Analytical study of exemplary motion pictures from the Hispanic world: Spain, Mexico, Cuba, Brazil, and Argentina. (Irreg.)

3413 Asian Cinema. Prerequisite: 1013. A survey of major Asian films, exploring aesthetic and narrative traditions from Japan, China, and India as its major concern. Films from other Asian cultures will be offered as availability permits. Students will refine critical, written and verbal skills. (Irreg.)

3800 Internship. 1 to 3 hours. Prerequisite: 1013, junior standing, and permission of instructor. May be repeated with change of internship; maximum credit four hours. Participation in supervised internship with submission of journals describing work performed, regular reports, on-site supervisor evaluation, assigned readings, and final assessment of experience. (F, Sp, Su)

3810 Variable Topics in Film and Video. 1 to 3 hours. Prerequisite: 1013 or permission of instructor. May be repeated with change of content; maximum credit 6 hours. Varied projects concerning particular aspects of film and video history, genres, or other specific content. (Irreg.)

3832 Masterpieces of World Cinema. Prerequisite: 1013. May be repeated once with change of content; maximum credit six hours. Survey of world film and the principles underlying historical and critical approaches to the cinema, emphasizing an appreciation of international cinema as an aesthetic, economic, and social factor in the twentieth century. (Irreg.)

3843 Topics in National Cinemas. Prerequisite: 1013. May be repeated with change of content; maximum credit six hours. Analytical study of exemplary motion pictures in terms of major periods, themes, and formal parameters in relation to national cultural histories, such as the French New Wave, Film Noir or American silent film. (Irreg.)

3853 Feature Screenwriting. Prerequisite: 1013 and permission of instructor. An introduction to writing for the screen, including a variety of assignments leading up to developing and writing a feature screenplay. (F, Sp)

3960 Honors Reading. Prerequisite: 1013, permission of the Honors Program. Independent study in film and video history, theory, and production for students enrolled in the Honors Program. In-depth analysis of specialized topics. (F, Sp, Su)

3980 Honors Research. Prerequisite: 1013, permission of the Honors Program. Open only to students enrolled in the Honors Program. Individualized research with a Film and Video Studies faculty member leading toward work for the Honors thesis. In-depth research of specialized topic in film and video theory, history, or production. (F, Sp, Su)

4013 Senior Seminar in Film and Video. Prerequisite: 24 hours of major credit. Development of an academic/professional project in film or video; critical analyses of film and video programming/papers/projects. (F, Sp) [V]

4990 Independent Study. Prerequisite: 1013, permission of the instructor. Specialized study in film and video history, theory, and production, or other topic mutually agreed upon by the student and the instructor. The course enables the student to pursue in-depth analysis of special interest topics in Film and Video Studies. (F, Sp, Su)

Finance (FIN)

3303 Business Finance. Prerequisite: Accounting 2113, 2123, and Economics 1113, 1123 and 2843. An introductory course in financial administration of the firm. Topics include the finance function, concepts of sources and uses of funds, analysis and estimation of need for funds (short- and long-term), short-term sources, working capital management policy, long-term sources, capital structure policy and implementation, capital budgeting and the cost of capital. (F, Sp, Su)

3403 Financial Intermediaries and Markets. Prerequisite: Economics 1113 and 1123. Investigates the determination of the level of domestic rates of interest, and their implications for international currency markets. Describes the important financial institutions in U.S. financial markets. Details the structure of interest rates, analyzes the behavior of fixed income prices. Discusses techniques of domestic and international institutions to immunize portfolios. (F, Sp, Su)

3513 Entrepreneurial Finance. Prerequisite: 3303. This course will cover various aspects of financing entrepreneurial ventures. Topics will include methods of financing, techniques for evaluating new businesses and financial structure. Funding sources examined will include commercial banks, small business investment companies, SBIC, business angels and venture capital companies. These processes are often referred to as sourcing, diligence and valuation. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to study materials not usually presented in regular courses. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program; junior standing. May be repeated; maximum credit six hours. Independent research on special projects. (F, Sp, Su)

4103 Investments. Prerequisite: 3303. Topics covered include the structure and operation of securities markets, introduction to portfolio management and capital market theory, the valuation of common stocks and fundamental analysis, determinants of option prices, the determinants of future prices, portfolio performance measurement and risk management, international portfolio management and international investing. Computer exercises are required. (F, Sp, Su)
4113 Derivative Securities and Markets (Slashlisted with 5113). Prerequisite: 4103 and permission of division. Uses of futures, option, and swap contracts in investments, banking, business finance, and foreign trade. Topics include valuation, trading mechanics and strategies, and applications. Hedging foreign currencies is included. The course is math and computer intensive. No student may earn credit for both 4113 and 5113. (Sp)

4123 Financial Planning. Prerequisite: 3303, 3403. Development of financial planning principles and their application to the design of insurance, savings, and investment programs for individuals. Topics covered include property, health, life insurance; deposit-based and marketable savings alternatives; fixed income and equity investment alternatives including mutual funds. (F, Sp)

4133 International Financial Management. Prerequisite: 3303. Provides the student with the analytical tools needed to evaluate and provide solutions for problems that are commonly encountered in international financial management. Emphasizes basic theoretical models of exchange rate determination and hedging exchange rate risk, international financial transactions, the link between a nation's macroeconomic accounts and its balance of payments accounts, privatization of state-owned enterprises, and international banking. (Irreg.)

4303 Advanced Business Finance. Prerequisite: 3303. Development of theory and applications of financial management of the firm with both domestic and international investment decisions, structure and cost of capital, working capital management, dividend policy, long-term financial planning and forecasting. The course emphasizes the development of problem solving skills and the use of computerized financial modeling. (F, Sp)

G4413 Commercial Banking. Prerequisite: 3303 and 3403. Financial management of the banking firm including analysis of bank financial performance, bond portfolio analysis, interest rate risk management, capital management, cost of funds, and loan administration. Regulation of the banking system is discussed as it competes from foreign banks. A computerized bank simulation game is used and international aspects of financial markets are discussed. (F, Sp)

4513 Financial and Energy Risk Management. Prerequisite: 4113. Emphasizes financial and commodity derivative securities and their use as risk management tools. Emphasis on the commodity side is given to energy related products. A financial market simulator will be used to develop students' trading and valuation skills. (Sp)

4523 Real Estate Finance and Investment Analysis. Prerequisite: 3303 and 3403. Real estate lending and investment in the United States; sources of mortgage funds in primary and secondary markets; roles of government programs and institutions in the real estate sector; fundamentals of real estate investment analysis; computer applications in case analysis; fundamentals of valuation and appraisal for real estate investments. (F)

4613 Student Investment Fund (Slashlisted with 5613). Prerequisite: 4103 or 4303. May be repeated once; maximum credit six hours. The management of a real dollar portfolio of common stocks using the value style approach. Emphasis is on the application of fundamental analysis. Frequent class presentations are required. No student may earn credit for both 4613 and 5613. (F, Sp)

4700 Internship in Finance. 1 to 3 hours. Prerequisite: 3303 and permission of division. Academic projects in the business world applied to practical on-the-job situations. (F, Su)

4713 Fixed Income Fund Management (Slashlisted with 5713). Prerequisite: 3403, 4103. Students are involved in the management of a fixed income (bond) portfolio. Emphasis is given to the analytics of fixed income security valuation, and the analysis of investment opportunities. Frequent class presentations are required. No student may earn credit for both 4713 and 5713. (F)

G4990 Special Studies. 1 to 3 hours. Prerequisite: permission, three or more courses in finance as determined by the nature of the program of study selected. The only passing grade given is the neutral grade of S. (F, Sp, Su)

G5043 Financial Administration of the Firm. Prerequisite: graduate standing, permission. Theoretical and procedural considerations in the administration of the finance function in the individual business firm; planning, fund raising, controlling of firm finances; specific emphasis is given to working capital management, capital budgeting, and cost of capital. (F)

G5103 Investments and Portfolio Management. Prerequisite: 5043 and permission (Director-CBA Graduate Programs). The investment characteristics of individual stocks, bonds and other financial assets; strategies and techniques of portfolio management. (F)

G5113 Derivative Securities and Markets (Slashlisted with 4113). Prerequisite: 5043 or Business Administration 5283. Uses of futures, option, and swap contracts in investments, banking, business finance, and foreign trade. Topics include valuation, trading mechanics and strategies, and applications. Hedging foreign currencies is included. The course is math and computer intensive. No student may earn credit for both 4113 and 5113. (Sp)

G5203 Financial Markets and Institutions. Prerequisite: 5043 or Business Administration 5283. The structure of financial markets and institutions. Financial market topics include theory of interest rate determination, term structure of interest rates, duration of debt instruments, default risk, valuation of foreign currencies, and hedging foreign currency risk. With respect to financial institutions, topics include the structure of the U.S. financial system, commercial banking, savings and loans, and managing interest rate risk. (F)

G5303 Corporate Finance—Long-Term Decisions. Prerequisite: 5043 and permission of Director-CBA Graduate Programs, or Business Administration 5283 and permission of Director-CBA Graduate Programs. Advanced topics in corporate finance. Topics include long- and short-term investment decisions, cost of capital, working capital management, dividend policy, long-term financial planning. The course emphasizes the development of computerized financial models. Cases involving domestic and international firms are utilized. (Sp)

G5403 International Financial Management. Prerequisite: 5043 or Business Administration 5283. Designed to provide the student with the analytical tools needed to evaluate and provide solutions for problems in international financial management. Example topics include exchange rates, international financial markets and the monetary system, risk management. (Sp)

G5413 Financial Engineering. Prerequisite: 4113 or 5113. How to value forward and futures contracts, swaps, and options and how to use them to manage risk and represent investments in real assets. Examples are drawn from the financial and commodity markets with an emphasis on energy commodities such as oil, natural gas, and electricity. (F)

G5613 Student Investment Fund (Slashlisted with 4613). Prerequisite: 5043 or Business Administration 5283. Students are involved in the management of a fixed income (bond) portfolio. Emphasis is given to the analytics of fixed income security valuation, and the analysis of investment opportunities. Frequent class presentations are required. No student may earn credit for both 4613 and 5613. (F, Sp)

G5713 Fixed Income Fund Management. Prerequisite: 5043 or Business Administration 5283. Students are involved in the management of a fixed income (bond) portfolio. Emphasis is given to the analytics of fixed income security valuation, and the analysis of investment opportunities. Frequent class presentations are required. No student may earn credit for both 4713 and 5713. (F)

G5970 Special Topics in Finance. Prerequisite: 5043 or Business Administration 5283. May be repeated; maximum credit six hours. Special topics in finance of interest to students in the MBA program. (F, Sp, Su)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Directed Readings in Finance. Prerequisite: 5043 or Business Administration 5283. May be repeated; maximum credit six hours. Individual graduate study of a specific narrow topic not offered in the current curriculum. (F, Sp, Su)

G6603 Introduction to Finance Theory. Prerequisite: graduate standing and permission. Topics include decision making under uncertainty, portfolio theory, models of asset pricing, efficient markets, option pricing, capital structure and agency theory.

G6703 Portfolio Theory and Asset Pricing. Prerequisite: 6603 and Economics 5213. Topics include utility maximization under uncertainty, portfolio theory, capital market models, and asset pricing including continuous time models.

G6803 Corporate Finance Theory. Prerequisite: 6603 and Economics 5213. Topics include complete and incomplete markets, capital structure theory, agency theory, property rights, dividend policy, signaling models, corporate control issues, mergers and acquisitions.

G6903 Financial Markets and Institutions. Prerequisite: 6603 and Economics 5213. Topics include the term and risk structure of interest rates, debt pricing, financial contracting, information economics, duration and immunization, futures and options.

G6960 Directed Readings in Finance. 1 to 3 hours. Prerequisite: twelve hours in finance and/or specifically related subjects, graduate standing, and permission of instructor. May be repeated with change of topic; maximum credit nine hours. Directed readings in various lines of specialization in finance. Conducted on a conference basis by the staff. Scope of reading and credit to be arranged on entry into the course. (F, Sp, Su)

G6973 Seminar. Prerequisite: twelve hours of finance and/or economics, graduate standing. May be repeated with change of topic; maximum credit nine hours. Seminar in latest developments in research and theory from one of the following general areas of the finance field: business finance, capital markets, insurance, investments, money and banking, public finance, real estate. A specific topic is announced for each time of offering. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)
**French (FR)**

**1013 Beginning French for Reading.** Prerequisite: graduate standing. Carries elective credit only. Designed as initial preparation for the advanced-degree reading examination. (F)

**1023 Beginning French for Reading.** Prerequisite: 1013. Carries elective credit only. Designed as initial preparation for the advanced-degree reading examination. (Sp)

**1115 Beginning French.** An elementary course in understanding, speaking, reading and writing French. Laboratory (F, Sp, Su) [I-FL]

**1223 Introduction to French for the Engineering Sciences.** Designed as a preparatory course for University of Oklahoma engineering students who are planning to participate in the Engineering Exchange Program in Clermont-Ferrand, France. This course does not fulfill the university-wide language requirement. (Sp)

**1225 Beginning French.** (Continued) Prerequisite: 1115. An elementary course in understanding, speaking, reading and writing French. Laboratory (F, Sp, Su) [I-FL]

**1235 First-Year French Review.** Prerequisite: two or more years of high school French or equivalent and placement by examination. A thorough one-semester review of the vocabulary, syntax and grammar of the usual first-year college French course. Oral and written drill sufficient to incorporate these elements, at a satisfactory level of performance, in the understanding, speaking, reading and writing of French. Students who have received credit in 1115 and/or 1225 cannot receive credit for 1235. Laboratory (F, Sp)

**2113 Intermediate French.** Prerequisite: 1225. The systematic cultivation of increased depth and control in the basic skills of listening, speaking, reading and writing French. Laboratory (F, Sp, Su)

**2133 French Conversation and Culture.** Prerequisite: 1225. Conversation practice based on elementary readings in selected topics from traditional and contemporary French culture, with the objective of developing additional active vocabulary and increased oral fluency while obtaining basic concepts about the French culture. (F, Sp, Su)

**2223 Intermediate French (Continued).** Prerequisite: 2113. The systematic cultivation of increased depth and control in the basic skills of listening, speaking, reading and writing French. Laboratory (F, Sp, Su)

**2243 French Conversation and Literature.** Prerequisite: 2113 or 2133. Conversation practice based on modern literary texts, with the objective of improving reading speed, vocabulary and comprehension, and increased oral fluency, while obtaining an expanded appreciation of French literary texts. (F, Sp, Su)

**3083 Advanced French Conversation and Phonetics.** Prerequisite: 2243 or concurrent enrollment. Intensive practice in speaking French on topics of everyday life; development of specialized vocabularies; fundamentals of French phonetics. (F, Sp)

**3293 French in the Sciences.** Prerequisite: 2223. Addressed to students in all areas, though particularly in the sciences and professional fields as well as French majors interested in improving their skills in reading, discussing and writing about scientific communications in French and the role of science and technology in French culture. (F, Sp)

**G3423 Advanced French Composition.** Prerequisite: 2243. The inculcation of proper writing habits, at an advanced level, toward the achievement of idiomatic French. (Sp, Su)

**3623 Business French.** Prerequisite: two years of college French or equivalent. Focuses on terms and expressions used in business settings. Designed to impart an awareness of the differences between French and American business cultures. May not count for major credit at the University of Oklahoma. (F)

**3723 French for the Professions.** Prerequisite: two years of college French or equivalent. Introduces students to vocabulary in sectors such as advertising, marketing, transportation, medicine, and law. French professional and business cultures are studied. Communication skills for professional and business settings will be practiced in this course. (Sp)

**3753 French Culture Through Film.** Prerequisite: 2243 or concurrent enrollment. This course deals with contemporary French culture through the medium of cinema. Topics examined include family, education, religion and societal issues, and ethnicity. As a course taught in French, it will also focus on regional accents and generational and ethnic speech. (F)

**3853 Introduction to Literary Analysis.** Prerequisite: 2223. Designed to introduce students to the language and technique of literary analysis. Also serves to improve reading skills generally, as well as oral/aural and written skills. Representative works from the various literary genres will be studied. (Sp, Su)

The prerequisite for courses numbered 3900-4999 is 17 hours of French. Other specific prerequisites are so indicated.

**3960 Honors Reading.** 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. Will deal with concepts not usually presented in regular coursework. (F, Sp)

**3970 Honors Seminar.** 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. Will deal with concepts not usually presented in regular coursework. (F, Sp)

**3980 Honors Research.** 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F)

**3990 Independent Study.** 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

**G4153 Survey of French Literature to 1800.** Reading and discussion of major French works and their background from the Middle Ages to the French Revolution. (F, Su)

**G4163 Survey of French Literature.** (Continued) Prerequisite: 4153 or permission. Reading and discussion of major French works and their background from 1800 to the present day. (Sp, Su)

**4313 French Civilization I.** Prerequisite: 3423; History 1223 or 1233. The political and social background of French literature from its beginning to the French revolution. (F, Su)

**4323 French Civilization II.** Prerequisite: 3423; History 1223 or 1233. The political and social background of French literature from the French revolution to the present day. (Sp)

**G4613 Advanced Conversation.** Prerequisite: 3073, 3423; also 4153 or 4163 or 4313, which may be taken concurrently. An advanced course in conversation covering political, literary, religious and social topics. (Su)

**4990 Independent Study.** 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. The prerequisite for courses numbered 3900-4999 is 17 hours of French. Other specific prerequisites are so indicated.

**G5223 Seventeenth-Century Theatre.** A study of dramatic works of Molière, Corneille, Racine and other contemporaries. (Irreg.)

**G5243 Explication de Textes.** Prerequisite: standing; seniors by permission of instructor. An intensive method of criticism which analyzes a literary work from as many points of view as possible: linguistic, historical, comparative and aesthetic, calling upon all the student’s language and literary skills. (F)

**G5283 Twentieth-Century French Novel.** Prerequisite: standing; permission of instructor. Course presents a survey of the major forms of French novel throughout the twentieth century. (Irreg.)

**G5293 Twentieth-Century French Poetry and Theatre.** Prerequisite: standing; permission of instructor. Course presents a survey of the major forms of French novel throughout the twentieth century. (Irreg.)

**G5313 Introduction to Old French.** Prerequisite: ten hours of college Latin or equivalent; some knowledge of articularic phonetics useful, but not required. History of the French vernacular from Latin to Modern French; external history, phonology, morphology, lexicography, syntax, with emphasis on phonological evolution; and introduction to the reading of Old French via short excerpts from monuments of literature, from the Strasbourg Oaths to Cent Nouvelles Nouvelles. (Alt. F)
G5323 Old French Readings. Prerequisite: 5313. Introduction to a literary understanding and appreciation of the Old French Canon as represented by such texts as the *Alexis*, the *Roland*, Chretien's romances, Beroul's *Tristan*, the *Rose*, theatre, chronicles and lyric poetry, including Rutebeuf and Villon. (Alt. Sp)

G5603 Sixteenth-Century French Narrative and Prose. Prerequisite: graduate standing or permission, Narrative and prose writers of the sixteenth century (i.e. Rabelais, Marguerite de Navarre, Montaigne). (Irreg.)

G5613 Sixteenth-Century French Poetry and Theatre. Prerequisite: graduate standing or permission of instructor. All major or minor poets will be studied, as well as the revival of classical theatre in French. (Irreg.)

G5623 Seventeenth Century Prose and Poetry. Prerequisite: 4133. A survey of baroque, precieux and classical style, form and content as exemplified in the prose and poetry of the period. (Irreg.)

G5633 Eighteenth Century French 'Philosophes'. Prerequisite: graduate standing or permission. Presents the "philosophes" of the eighteenth century in France such as Montesquieu, Voltaire and Diderot. (Irreg.)

G5643 Eighteenth-Century French Narrative and Theatre. Prerequisite: graduate standing or permission of instructor. The course will present an overview of eighteenth-century French narrative and theatre. (Irreg.)

G5910 Problems in Research. 2 to 4 hours. May be repeated with change of content; maximum credit nine hours. An individual course of intensive research with the area and problem to be determined by the student and directing instructor. (F, Sp, Su)

G5963 Nineteenth-Century French Novel. Prerequisite: graduate standing or permission of instructor. Course covers the major developments of the French novel throughout the nineteenth century. (Irreg.)

G5973 Nineteenth-Century French Poetry and Theatre. Prerequisite: graduate standing or permission of instructor. Course surveys the major literary developments in French poetry and theatre throughout the nineteenth century. (Irreg.)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp)

G5990 Independent Studies. 1 to 3 hours. Prerequisite: graduate standing, permission of instructor. May be repeated; maximum credit twelve hours. Independent reading on one or more topics under the general direction of a faculty member. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. 2 to 16 hours. (F, Sp)

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**Geography (GEOG)**

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

1103 Human Geography. An introduction to the humanized Earth; specifically, to the geography of population, the global pattern of cultures and such affiliated elements as language, religion, technology, and political organization, and to the physical expression of those cultures in rural and urban settings. (F, Sp, Su) [IV-WC]

1113 The Language of Maps. How to read, analyze and interpret graphic information symbolized on a wide variety of maps. Topics include: scale, location, distance and direction, navigation, interpreting human and physical landscapes, map propaganda, maps in the media and comparisons of maps in western and non-western societies. (J-O)

1114 Physical Geography. A systematic introduction to the physical Earth; including Earth materials, landform processes and resultant landforms, Earth-sun relations, weather, climate, the water cycle, natural vegetation, and soil types. Emphasis is placed on the inter-relationships among these phenomena. (F, Sp, Su) [II-LAB]

1213 Economic Geography. A survey of the contemporary global economy and of the analytical approaches developed by geographers studying it. Economic systems are examined at the household, urban, regional, national, and international levels. Special attention is given to changes in resource use, regional specialization, trade, industrial and retail location, and modernization. (F, Sp) [III-SS]

2113 Introduction to the City (Crosslisted with Regional and City Planning). Cities and regions; cities and suburbs; housing for rich and poor; industry and commerce; transportation; public policies and urban politics; planning responses to urban problems. (Irreg.)

2453 Introduction to Computer Mapping and Analysis. An introductory survey of computer applications in mapping and map analysis. Designed to provide fundamental concepts and techniques necessary for visual presentation, analysis, and interpretation of geographic data using computer mapping technologies. The course covers the nature of geographic data, desktop mapping, and map analysis. (F)

2503 Introduction to Computer Mapping and Analysis. An introductory survey of computer applications in mapping and map analysis. Provides fundamental concepts and techniques necessary for visual presentation, analysis, and interpretation of geographic data using computer mapping technologies. The course covers three main topical areas: nature of geographic data, desktop mapping, and maps and map analysis. (Sp)

2603 World Regional Geography. A broad survey of the world’s major culture regions emphasizing basic physical, cultural, economic, and political patterns, as well as the processes that have created those patterns. Emphasis on economic development, ethnic conflict, and environmental degradation, as well as on the changing role of the United States. (F, Sp, Su) [IV-WC]

3001 Dialogue on the Discipline of Geography. Prerequisite: 1103, 1114 and 2113; or permission of instructor. Introduction to the discipline of geography, nature of geographical research and the interests and ideas of departmental faculty and students.

3003 Interpreting Geography. Prerequisite: junior standing or permission of instructor. A one-semester course that will integrate both human and physical geography using conventional and technical applications through content lecture and pedagogy. Contact and understanding of the nature of the many facets of geography and geographic thinking will be accomplished through discussion, group work, project, case and various field-based activities. (Sp) [III-SS]

3023 Principles of Physical Geography. Prerequisite: Upper division standing or permission of instructor. Provides a foundation in physical geography. Students should gain a broad, comprehensive but focused viewpoint if lithospheric, biospheric and atmospheric processes as well as the interdependence among them. (Sp)

3203 Globalization and the Environment. Prerequisite: junior standing or permission of instructor. Explores the complex assemblage of economic, political, and cultural processes popularly known as "globalization" and examines their implications for resource use and the environment. A central objective is to facilitate critical thinking on global environmental issues and enable students to challenge the increasingly polarized rhetoric concerning economic growth and the environment. (Irreg.)

3213 Principles of Human Geography. Prerequisite: Upper division standing or permission of instructor. Introduction to the distribution of humans and their activities on the surface of the earth and the processes that generate these distributions. Special attention given to the influence of economy, culture, and politics in shaping the land and the spatial character and organization of human life. A key theme is the relationship of human diversity and pace to the environment. (F)

3243 Principles of Economic Geography. Prerequisite: upper division standing or permission of instructor. An examination of the distribution of economic activities and the processes that generate them. Special attention is given to principles of economic location and their application to patterns of production, consumption, and exchange. Students will learn the theories and methods used by geographers in studying economic activities from the local to the global scale. (Sp)

3253 Environmental Conservation. Contemporary environmental issues and policies. Problems of population growth, food production, energy shortages, resource depletion and pollution impacts will be stressed. The social aspects of conservation management policies will be viewed at both global and national scales. (F) [III-SS]

3353 Introduction to Cartography. A basic survey of maps: their properties, conception and design, construction, compilation and editing, production, and use, with exercises in mapmaking. (F)

3513 Political Geography. A survey, stressing current geopolitical conflicts. Special topics include the nation-state, territoriality, the legacies of colonialism, spheres of political influence, regional conflicts, political-geographical integration in such areas as Europe and the Pacific Rim, demographic and resource considerations in world politics, and emerging culturally based conflicts. (F, Sp) [IV-WC]

3563 Geography of Natural Resources. Definition and evaluation of mineral, agricultural, forest, and water resources, including their variation over time, between cultures, and as affected by technological innovation. Emphasis is placed on the distribution, technologies, institutions, and landscapes of natural resources in modern economies. (F, Sp)
3613 Geography of Oklahoma. A study of the physical regions, populations, distribution, economic development and recreational resources of Oklahoma. (Irreg.)

1G3633 Historical Geography of the United States. America's changing geography is considered under three headings: the Colonial Pattern, the Humid East, and the Dry West. Special attention is given to those human activities that have shaped successive cultural landscapes and to those patterns that persist to give present day regions their distinctive character. (F, Sp) [IVWC]

3773 Geography of the United States. Prerequisite: junior standing or permission of instructor. An introduction to the regional character of the United States, including its physical, social, and economic elements. (Irreg.)

3890 Selected Studies in Geography. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. To be used for special intersession courses and occasional (irregularly scheduled) courses of special concern and use for the undergraduate. (F, Sp)

1G3924 Analytic Methods in Geography. Introduces students to methods of organizing, classifying and describing geographic data, together with methods of interpreting spatial relationships and areal associations. Laboratory (F)

3930 Field Techniques for Geographers. 1 to 4 hours. Prerequisite: twelve hours of geography or permission of instructor. May be repeated with change of subject matter; maximum credit six hours. Basic methods of data acquisition: surveying, measuring, sampling, sketching, and mapping. Individual and group projects may be required. (Irreg.)

3933 Interpretation of Aerial Photographs. Prerequisite: 1114 or permission. An introduction to the photographic inventory of physical and cultural land resources including current processes of change, and to the use of aerial photographs in evaluating present land use potential, alternatives, and associated risks. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. Covers materials not usually presented in the regular courses. (F, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp)

4003 The Global City and Planning Issues (Crosslisted with Regional and City Planning 4003; Slashlisted with 5003). Prerequisite: English 1213 and junior standing. An introduction to the concept of globalization and its effects on cities, and the city planning issues related to those effects. Characteristics, theories, and strategies of city development are reviewed. Cities are observed from several perspectives: natural and built environment, governance, society, economics, and history. No student may earn credit for both 4003 and 5003. (Sp)

4133 Fundamentals of Remote Sensing (Slashlisted with 5133). Prerequisite: junior standing or permission of instructor. An introduction to the theory and interpretation of remote sensing imagery, with emphasis on photographic, multi-spectral, thermal, and microwave remote sensing systems. Imagery from aircraft, satellite and low-altitude platforms will be used to illustrate geographic and environmental applications of remote sensing. Introduction to preprocessing (DIP). No student may earn credit for both 4133 and 5133. (F, Sp)

4200 Internship in Geography. 1 to 6 hours. Prerequisite: sixteen hours of geography and senior standing. Provides career training experience whereby students may apply geographical skills and develop further professional capabilities in a realistic setting. Students will be assigned to particular business firms, governmental agencies and educational institutions on an individual basis. (F, Sp, Su)

4203 Geomorphology. Prerequisite: 1114, or comparable work in earth sciences, junior standing. Development and modification of land-surface form by atmospheric, fluvial, glacial, mass-wasting, volcanic and tectonic agents. Emphasis is placed on spatial aspects of the interactions at the interfaces of land, air and water. (Irreg.)

4233 Digital Imaging Processing (Slashlisted with 5233). Prerequisite: 4133/5133 or permission of instructor. Theory and techniques for computer processing (DIP) of digital earth resources satellite imagery and incorporation into geographic information systems. (Sp)

4243 Geography of China (Slashlisted with 5243). Prerequisite: junior standing or permission of instructor. Cultural and environmental geography of China, Tibet and Mongolia since the Qing dynasty (1644–today). No student may earn credit for both 4243 and 5243. (Sp) [IV-NW]

4253 Latin America Geography. Prerequisite: junior standing or permission of instructor. An exploration of the ways in which natural, cultural, and historical processes have combined to shape a unique region of the world. Special emphasis will be placed on the legacies of colonialism, cultural landscapes, social movements, and environmental degradation and resource conservation. (Sp) [IVWC]

4263 Geography of Latin America through Film. Prerequisite: junior standing or permission of instructor. An advanced undergraduate course designed to introduce students to the various themes shaping the historical and cultural geography of Latin America. Weekly films illustrate exploration and conquest, indigenous encounters, slavery and Africans, colonial society, liberalism, environmental change, urbanization, revolution and issues in contemporary social geography. (F)

G4273 Regional Climatology. Prerequisite: 1114, Meteorology 1004, junior standing or permission. Emphasizes the processes and patterns of the world's climate and presents a synthesis of contemporary scientific ideas about atmospheric circulation. Topics include radiation, the hydrologic cycle, general circulation, local and regional climates, and global climate change. Specific attention is focused on the climatic water budget, its utility in evaluating regional and local climates, the emerging role of climate models, and issues in global climate change. (Irreg.) [II-NL]

4283 Biogeography (Slashlisted with 5283). Prerequisite: 1114 and junior standing. A survey of spatial patterns and processes in plant populations, plant communities, and vegetated landscapes. Emphasis is placed on the contemporary patterns of species and communities as determined by a combination of factors including physiography, climate, human influences, evolution, and dispersal. Field and laboratory techniques used in biogeographic research are also discussed. No student may earn credit for both 4283 and 5283. (Alt. Sp)

4293 Hydrologic Science (Slashlisted with 5293). Prerequisite: Math 1823 and either Physics 2141, 2151 or Chemistry 1315. Study of the processes which control the storage and movement of water at global, regional, and local scales. The emphasis is on the land portion of the hydrologic cycle, and includes the study of processes such as infiltration, soil water flow in the saturated and unsaturated zone, rainfall/runoff and evaporation. Lab sections include exercises on a computer in the field and in a soils lab. No student may earn credit for both 4293 and 5293. (Sp)

4314Soils. Prerequisite: 1114. A survey of physical and chemical properties of soils, climate-soil relationships; soil geneses, survey and classification; soil erosion and its control; and soil resources and human dimensions. Laboratory (Irreg.)

4345 Climate, History, and Society (Slashlisted with 5343). Prerequisite: junior standing or permission of instructor. This course is an overview of the mutual interactions of climate and human activities, and examines historical examples of significant climatic impacts. The course includes investigation of the nature of earth's climate and a synthesis of contemporary scientific ideas about the climate and its environmental and societal impacts. No student may earn credit for both 4343 and 5343. (Irreg.) [II-NL]

4353 Introduction to Geospatial Information Technologies. Prerequisite: junior standing or permission of instructor. An interdisciplinary course that examines how cities acquire, utilize, and modify environmental inputs such as land, water, and energy, and in the process generate a complex set of waste streams and environmental impacts such as solid wastes, atmospheric emissions, and habitat modification. No student may earn credit for both 4443 and 5443. (Irreg.)

4443 Urban Ecology (Slashlisted with 5443). Prerequisite: junior standing and permission of instructor. An interdisciplinary course that examines how cities acquire, utilize, and modify environmental inputs such as land, water, and energy, and in the process generate a complex set of waste streams and environmental impacts such as solid wastes, atmospheric emissions, and habitat modification. No student may earn credit for both 4443 and 5443. (Irreg.)

4453 Geographic Information Systems (Slashlisted with 5453). Prerequisite: permission of instructor. An introduction to the nature and applications of geographic information systems (GIS) including the categories of geographic data, data input, data models, spatial analysis, output, and the uses
of GIS in socio-economic and environmental studies. No student may receive credit for both 4453 and 4543. (F, Sp)

**G453 GIS Applications (Slashlisted with 5533).** Prerequisite: 4453. Emphasizes technical and application practices in geographic information systems (GIS). Through weekly exercises and two projects, students will gain experience with applications and utilities of Geographic Information Systems, and learn how to plan and implement a GIS project. No student may earn credit for both 4453 and 5533. Laboratory (Irreg.)

**G4563 American Indian Geographies.** Prerequisite: upper-division standing. A survey of the geographical knowledge among Indians in North America. Historical and contemporary topics are covered in a cross-cultural perspective including land use, environmental perception, concepts of space and place, symbolic landscapes, sacred land, and the idea of resources. (Sp) [IV-NW]

**4953 Proseminar in Geography.** Prerequisite: 1103, 1114, 1213, 1213, 3353, 3924, and an upper-division physical geography course; 3353 and 3924 may be taken concurrently with permission of instructor. History and character of the discipline of geography, with particular attention to changing themes, debates, and methods; the discipline's relations with its neighbors, and current trends in the discipline. (Sp) [V]

**4990 Independent Study.** 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topics not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

Unless otherwise noted, the prerequisite for courses in geography numbered 5000-5999 is twelve hours of geography or, in the case of students not majoring in geography, permission.

**G5003 The Global City and Planning Issues (Crosslisted with Regional and City Planning 5003; Slashlisted with 4003).** Prerequisite: graduate standing. An introduction to the concept of globalization and its effects on cities, and the city planning issues related to those effects. Characteristics, theories, and strategies of city development are reviewed. Cities are observed from several perspectives: natural and built environment, governance, society, economics, and history. No student may earn credit for both 4003 and 5003. (Sp)

**G5113 Quantitative Methods in Geographical Research.** Prerequisite: 3923 or permission of instructor. An introduction for graduate majors in geography and those in allied fields to research design and problem-solving research techniques. (F, Sp)

**G5133 Fundamentals of Remote Sensing (Slashlisted with 4133).** Prerequisite: graduate standing or permission of instructor. An introduction to the theory and interpretation of remote sensing imagery, with emphasis on photographic, multi-spectral, thermal, and microwave remote sensing systems. Imagery from aircraft, satellite and low-altitude platforms will be used to illustrate geographic and environmental applications of remote sensing. Introduction to computer processing (DIP). No student may earn credit for both 4133 and 5133. (F)

**G5213 Principles and Practice of Urban Planning (Crosslisted with Regional and City Planning 5213).** Prerequisite: open to seniors in social science departments, architecture and civil engineering and to graduate students in regional and city planning. A lecture course which examines the physical, social, economic and public interest determinants of land use; the economic population and land use studies required to provide the basis for planning: space and location requirements and design characteristics for residential, commercial, industrial and public uses of land; and the study of urban traffic as a function of land use in terms of structure and systems of movement. (F, Su)

**G5233 Digital Image Processing.** Prerequisite: 4133/5133 or permission of instructor. Theory and techniques for computer processing (DIP) of digital earth resources satellite imagery and incorporation into geographic information systems. No student may earn credit for both 4233 and 5233. (Sp)

**G5243 Geography of China (Slashlisted with 4243).** Prerequisite: graduate standing or permission of instructor. Cultural and environmental geography of China, Tibet and Mongolia since the Qing dynasty (1644–today). No student may earn credit for both 4243 and 5243. (Sp)

**G5283 Biogeography (Slashlisted with 4283).** Prerequisite: 1114 and junior standing. A survey of spatial patterns and processes in plant populations, plant communities, and vegetated landscapes. Emphasis is placed on the contemporary patterns of species and communities as determined by a combination of factors including physiography, climate, human influences, evolution, and dispersal. Field and laboratory techniques used in biogeographic research are also discussed. No student may earn credit for both 4283 and 5283. (Alt Sp)

**G5293 Hydrologic Science (Slashlisted with 4293).** Prerequisite: Math 1823 and either Physics 2414, 2514 or Chemistry 1315, or the equivalents and graduate standing. Study of the processes which control the storage and movement of water at global, regional, and local scales. The emphasis is on the land portion of the hydrologic cycle, and includes the study of processes such as infiltration, soil water flow in the saturated and unsaturated zone, rainfall/runoff and evaporation. Lab sections include exercises on a computer in the field and in a soils lab. No student may earn credit for both 4293 and 5293. (Sp)

**G5343 Climate, History, and Society (Slashlisted with 4343).** Prerequisite: graduate standing or permission of instructor. An introduction to the nature of earth's climate and a synthesis of contemporary scientific ideas about the climate and its environmental and societal impacts. No student may earn credit for both 4343 and 5343. (Irreg.)

**G5353 Advanced Cartography (Slashlisted with 4353).** Prerequisite: 3353 or permission of instructor. Training in using state-of-the-art hardware and software for computer mapping systems in digital cartographic data structures, in cartographic modeling, and in map production in computer environments. No student may earn credit for both 4353 and 5353. (Sp)

**G5443 Urban Ecology (Slashlisted with 4443).** Prerequisite: graduate standing and permission of instructor. An interdisciplinary course that examines how cities acquire, utilize, and modify environmental inputs such as land, water, and energy, and in the process generate a complex set of waste streams and environmental impacts such as solid wastes, atmospheric emissions, and habitat modification. No student may earn credit for both 4443 and 5443. (Irreg.)

**G5453 Geographic Information Systems (Slashlisted with 4453).** Prerequisite: 3353 or permission of instructor. An introduction to the nature and applications of geographic information systems (GIS) including the categories of geographic data, data input, data models, spatial analysis, output, and the uses of GIS in socio-economic and environmental studies. No student may receive credit for both 4453 and 5453. (F, Sp)

**G5454 Advanced Digital Analysis of Remotely Sensed Data.** Prerequisite: 4133/5133 and 4233/5233. Advanced course in remote sensing, including RS and GIS applications/modeling; a brief overview of spatial techniques; and an independent research project. (Irreg.)

**G5533 GIS Applications (Slashlisted with 4553).** Prerequisite: 5443 or equivalent; or permission of instructor. Emphasizes technical and application practices in geographic information systems (GIS). Through weekly exercises and two projects, students will gain experience with applications and utilities of Geographic Information Systems, and learn how to plan and implement a GIS project. No student may earn credit for both 4533 and 5533. Laboratory (Irreg.)

**G5610 Field Studies in Regional Geography.** 1 to 4 hours. Prerequisite: eight hours of geography or three hours of geography and eight hours in one, or twelve hours in two, of anthropology, economics, political science, history, sociology, geology and permission. May be repeated; maximum credit twelve hours. Written reports based on lectures, observations, field notes, interviews and library research are required of each student. (Irreg.)

**G5623 Seminar in GIS Design.** Prerequisite: 4553 or 5553. May be repeated with change of content; maximum credit nine hours. Discusses and practices principles in GIS interface design and project management; integration of spatial data and spatial models with GIS; and spatial decision support systems (SDSS). Students will gain knowledge about the theoretical aspects of GIS technology. (Sp)

**G5650 Advanced Field Studies.** 1 to 6 hours. May be repeated; maximum credit twelve hours. Advanced work in techniques of data acquisition: surveying, measuring, sampling, collection, analysis, sketching, and mapping. Individual and group projects may be required. (Irreg.)

**G5980 Research for Master's Thesis.** Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. Laboratory (F, Sp, Su)

**G5990 Selected Studies in Geography.** 1 to 4 hours. Prerequisite: teacher's certificate or bachelor's degree and permission. May be repeated with change of subject matter; maximum credit eight hours. Designed to afford either an intensive study of a systematic field or an extensive coverage of broad problem topics in geography. (F, Sp, Su)

The following seminars are offered on an irregular basis depending on availability of faculty resources and demand.

**G6210 Seminar in Physical Geography.** 1 to 3 hours. Prerequisite: twelve hours of geography or permission. May be repeated with change of subject matter; maximum credit ten hours. Directed individual research studies in one of the major divisions of physical geography, such as landscape analysis, climatology, the geography of soils, water resources or biogeography. Provides training in oral, written and cartographic presentation. (Irreg.)

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Sec. 4—Hydrology
Sec. 5—Biogeography
Sec. 6—Human Impacts on Physical Environment

Geological Engineering (G E)  

2281 Engineering Co-Op Program (Crosslisted with AME, CH E, C E, C S, ECE, ENGR, EPHY, E S, E T, P E 2281). Prerequisite: student participation in the program. The Co-Op program provides student placement in jobs outside the University, but in a position related to the student’s major. On completion of a semester or work period the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum of credit of six hours. (F, Sp)

3113 Production Engineering (Crosslisted with Petroleum Engineering 3113). Prerequisite: Petroleum Engineering 3123, Engineering 3223. Single and two-phase flow through pipes, gas lift, sucker rod pumping, submersible pumps, fluid separation, gas dehydration, pipeline system design, corrosion control. (Su)

3303 Drilling Engineering (Crosslisted with Petroleum Engineering 3303). Prerequisite: Petroleum Engineering 3123, Engineering 2153, 3223. History of drilling, methods and equipment, well kicks and blowouts, drilling fluids, pressure losses in circulating systems, penetration rate, rotary drilling techniques, formation damage, drilling costs. (Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in the regular courses. (F, Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework. (F, Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student’s field. (F, Sp)

4233 Coal Engineering. Prerequisite: Chemistry 1415, Geology 3003, permission of instructor. Coal occurrence characteristics and theories of origin; exploration, extraction and transportation; economics of coal use; coal as a primary energy source, gasification, liquefaction, coaling, cleaning, agglomeration, waste disposal, etc. (Irreg.)

4503 Applied Oceanography (Crosslisted with Chemistry 4503). Prerequisite: Geology 1124 or 2233, permission of instructor. Interdisciplinary approach in physical, chemical and biological oceanography, whereby ocean processes affect erosion, deposition, development of coastlines and ocean bottoms, and dictate construction practices. Economic factors of life forms in each zone of ocean; controlling chemical aspects of water depths, temperatures, salinities, oxygen content in the ecological system. (Irreg.)

G5110 Research. Prerequisite: permission. Research in subsurface geology, stratigraphy and engineering applications of well logging techniques. (F, Sp)

G5133 Non-Newtonian Fluid Mechanics (Crosslisted with Petroleum Engineering 5133). Prerequisite: Engineering 3223 or equivalent. Characteristics of stress in fluids, the role of Newtonian fluid mechanics, extension of Newtonian analysis to Bingham plastics; fluids without yield stress, time dependent non-Newtonian fluids, laminar and turbulent flow, boundary layers in non-Newtonian fluids. (Sp)

G5143 Fluid Flow in Porous Media (Crosslisted with Petroleum Engineering 5143). Prerequisite: Petroleum Engineering 4513, graduate standing. Physical concepts involved in the flow of fluids in porous media; treatment of Darcy’s law in a mathematical sense; the concept of relative permeability applied also in a mathematical sense. (F)

G5243 Introduction to Rock Mechanics (Crosslisted with Petroleum Engineering 3243). Prerequisite: senior standing in engineering or permission. Engineering properties of rock; rock testing techniques, in situ methods, mathematical approach to stress-strain analysis; discontinuities in rock; application for underground openings; rock slopes; foundations and drilling. (Sp)

G5310 Special Problems in Geological Engineering. 1 to 3 hours. Prerequisite: Geology 3113, permission. Special studies in stratigraphy, petrology, subsurface geology, sedimentation and petroleum exploitation problems. (F, Sp, Su)

G5533 Petroleum Reservoir Development (Crosslisted with Petroleum Engineering 5533). Prerequisite: Engineering 3723, Geology 3113, Petroleum Engineering 4223, 4513, or permission. Petroleum reservoir development and extension. Simulation methods for evaluating a petroleum reservoir, schemes for oil field development. Engineering application of logging and geological fluid and well-testing data. Student-oriented reservoir simulation projects. (Sp)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Special Studies. 1 to 4 hours. Prerequisite: graduate standing in geological engineering. May be repeated with change of topic; maximum credit four hours. Supervised individual study or specialized research in geological engineering. (F, Sp)

G6153 Transport Phenomena in Porous Media (Crosslisted with Petroleum Engineering 6153). Prerequisite: 5413 or equivalent. Fundamental theory of mass, momentum and energy transport in porous media. Emphasis placed upon enhanced oil recovery processes, in situ energy extraction and other processes relevant to energy production. (Irreg.)

G6253 Advanced Petrophysics (Crosslisted with Petroleum Engineering 6253). Prerequisite: Petroleum Engineering 4513, 4522, graduate standing or permission. Techniques of sampling petroleum reservoirs with emphasis upon the rock and fluid properties. (Irreg.)


Geology (GEOL)

G6283 Seismic Reservoir Modeling (crosslisted with GEOLPE 6283). Prerequisite: Graduate standing or permission of instructor. This course is designed to explore the seismic response of rocks and how it is related to petrophysical parameters. This understanding is key to interpretation of seismic data in terms of subsurface rocks and fluids. (F)

G6443 Petroleum Production Systems (Crosslisted with Petroleum Engineering 6443). Prerequisite: graduate standing, permission. Principles of the development and operation of petroleum production systems. Considers the combined behavior of the reservoirs, the surface equipment, the pipeline system, and the storage facilities. Optimization of these systems for various production schedules using queuing theory, linear programming and dynamic programming. (Irreg.)

G6573 Advanced Reservoir Engineering (Crosslisted with Petroleum Engineering 6573). Prerequisite: Petroleum Engineering 4513, 4523 and graduate standing. Optimization of material balance equations; saturation calculations, with and without countercflow; dynamics of water drive reservoirs; accelerated blowdown of strong water drive gas reservoirs; conformal mapping of oil and gas fields; the subsidiary equation; tracer methods; streamlines; miscible processes; dispersion models and optimum solvent slug size. (Irreg.)

G6583 Enhanced Oil Recovery (Crosslisted with Petroleum Engineering 6583). Prerequisite: graduate standing or permission. New principles of recovery of oil and gas fields including: polymer, surfactants, miscible recovery processes, inert gas injection, emulsions, steam, in situ and wet combustion techniques. (Laboreo)

G6612 Drilling Fluids (Crosslisted with Petroleum Engineering 6612). Prerequisite: graduate standing and permission of instructor. Theory and practical application of drilling fluids based upon the theory of colloidal chemistry and the technology of fine particles. (Irreg.)

G6743 Advanced Evaluation of Petroleum Properties (Crosslisted with Petroleum Engineering 6743). Prerequisite: Petroleum Engineering 4513, 4723, graduate standing, Continuation of Petroleum Engineering 4413. More extensive work on evaluation of petroleum and natural gas properties. Actual fields and leases used. (Irreg.)

G6980 Research for Doctoral Dissertation. (F, Sp, Su)

1003 Volcanoes and Earthquakes. Prerequisite: high school chemistry and algebra. Worldwide distribution of volcanic and earthquake activity; types of volcanic eruptions and associated landforms and rocks; causes of and techniques for location of earthquakes; prediction of volcanic eruptions and earthquakes; social consequences of predictions and actual volcanic and earthquake activity. (F, Sp) [II-NL]

1013 Global Environmental Change. Past and present changes on Earth from a global geologic perspective. Philosophy and methods of science, structure of the earth, plate tectonics, global catastrophes and geologic hazards, human impacts on the environment, global warming, pollution, ozone depletion, acid rain, resources, consumption, population growth, energy and technology. (Sp) [II-NL]

1024 The History of the Earth and Life. The origin of the Earth and solar system. Rocks and minerals; geologic time; plate tectonics and continental drift. The ocean-atmosphere system; climate change over time; biological evolution. The fossil record of early life; the “Cambrian Explosion” of life in the oceans; invertebrate animals and their geological history. Geological history of fishes; evolution of plants. Terrestrial vertebrates, including dinosaurs and mammals. Mass extinctions; human evolution; impact of human activities on the global environment and the biosphere. A student may not receive credit for both 1024 and 1114. Laboratory (Sp) [II-LAB]

1104 The Dynamic Earth (Geology for Non-Science Majors). Introduction to the fundamentals of geology and their application to land-use, groundwater, mineral use and fossil fuel problems facing society. Several guest lecturers from industry and state and federal surveys will contribute to the content of the course. Laboratory fee. Three hours lecture, two hours lab. Laboratory (F, Sp) [II-LAB]

1114 Physical Geology for Science and Engineering Majors. Prerequisite: equivalent knowledge of high school chemistry, algebra and trigonometry. Laboratory included. Plate tectonics, the makeup of continents and mountain building. Heat flow, magnetism, gravity, rock deformation, earthquakes and the earth's interior. Surface processes including weathering, erosion, transport and deposition. Landforms, rivers, groundwater, glaciers, ocean processes, and volcanoes. Minerals and rocks. Application of geology to land-use, groundwater, mineral and fossil fuel exploration. Laboratory (F, Sp) [II-LAB]

1124 Earth History. Prerequisite: none; 1114 helpful but not required. Laboratory included; field trip. Physical history of the earth from its origin as a planet through the Great Ice age. Origin and growth of continents and ocean basins. Systematic survey of the history of continents with emphasis on North America: growth and leveling of mountain chains, rift valleys, transgressions and regressions of seas; continental fragmentation, assembly and relative motions. Plate tectonics, particularly as it relates to continent history. Climate and evolutionary changes through geologic time. Principles and methods used to interpret earth history and date rocks. Geologic time. Laboratory includes historical studies of specific regions; study of maps and fossils. Laboratory (F, Sp)

1133 Gold, Silver and Gemstones. Geologic processes leading to the formation of precious metal (gold, silver and platinum) and gemstone (diamond, sapphire, ruby, emerald, topaz, tourmaline) deposits; properties and uses of precious metals and gem minerals; geological constraints on the location and generation of deposits; exploration, mining, processing, and marketing. (Sp) [II-NL]

1203 The Age of Dinosaurs (Crosslisted with Zoology 1203). Introduction to basic principles and theories in zoology (evolution, systematics, vertebrate morphology and geology (geologic time, earth history, plate tectonics, sedimentation and stratigraphy), focusing on the evolutionary history of Dinosaurs. May not be counted for major coursework in either department or for general education requirements. [II-NL]

2224 Introduction to Mineral Sciences. Prerequisite: 1114 or permission; Chemistry 1415 or concurrent enrollment. Crystallography, crystal chemistry, optical properties and identification of minerals utilizing the petrographic microscope; an introduction to the rock-forming minerals and their relationships within the rock types, metamorphic and sedimentary rocks. Laboratory (F)

2232 Survey of Petroleum Exploration Technology. Prerequisite: 1114 or equivalent, and 1124. To introduce the student to the practical applications of various geological disciplines and concepts used in petroleum exploration and development. Video and CD-ROM presentations followed by discussion. Materials will be selected from oil company training programs to illustrate what a petroleum geologist should learn and how it is applied. (Sp)

3003 Structural Geology and Stratigraphy for Petroleum Engineers. Prerequisite: 1114, Physics 2524 or concurrent enrollment. Treatment of structural and stratigraphic geology with an emphasis on aspects of importance to petroleum engineering. Includes an investigation of mechanical principles relating to the earth's crust, descriptive study of nomenclature, causes of tectonic deformation, sedimentary processes and environments, and stratigraphic principles. Laboratory (F)

3114 Structural Geology. Prerequisite: 2224, Physics 2524 or concurrent enrollment. An introduction to the concepts of stress, strain, the mechanisms of rock deformation, the mechanics of folding and fracturing, and description of structural styles in various tectonic settings. Laboratory (F)

3123 Introductory Field Geology. Prerequisite: 3114 or concurrent enrollment; or permission. Laboratory included. Field trips; students will be charged transportation costs. Techniques of geologic fieldwork. Use of Brunton compass, alidade and plane table and topographic maps. Field examination of common geologic situations. Field exercises. Laboratory (Sp)

1GC3154 Environmental Geology. Prerequisite: college algebra and permission of instructor; completion of one college level science course recommended. Designed for students who are wanting to know to relationship between earth materials and environmental issues. Topics include minerals, rocks, depositional environments, porosity, permeability, water occurrence and chemistry, petroleum, natural gas, tar sands, oil shales, land subsidence, and earthquakes. Laboratory includes the study of minerals, rocks, maps, and well cuttings. Laboratory (Sp)

3223 Igneous and Metamorphic Petrology. Prerequisite: 2224 or permission. Laboratory included. Field trip; students will be charged transportation costs. Generation, emplacement and crystallization of magma; phase chemistry; principles of igneous rock classification; the relationship of magma types to tectonic setting, emplacement and crystallization of magma; formation of precious metal (gold, silver and platinum) and gemstone (diamond, sapphire, ruby, emerald, topaz, tourmaline) deposits; properties and uses of precious metals and gem minerals; geological constraints on the location and generation of deposits; exploration, mining, processing, and marketing. Laboratory (Sp)

3233 Sedimentary Petrology and Sedimentology. Prerequisite: 2224 or permission. Laboratory included. Field trip; students will be charged transportation costs. Techniques of geologic fieldwork. Use of Brunton compass, alidade and plane table and topographic maps. Field examination of common geologic situations. Field exercises. Laboratory (Sp)

3513 Fundamentals of Invertebrate Paleontology. Prerequisite: 1124 or permission. Laboratory included. Field trip; students will be charged transportation costs. A systematic approach to the animal invertebrate phyla, transportation costs. Origin, evolution and interpretation of sedimentary rocks; principles of metamorphic petrology; phase chemistry and structural styles in various tectonic settings. Laboratory (F, Sp)

3623 Survey of Petroleum Exploration Technology. Prerequisite: 1114, Physics 2524 or concurrent enrollment. Treatment of structural and stratigraphic geology with an emphasis on aspects of importance to petroleum engineering. Includes an investigation of mechanical principles relating to the earth's crust, descriptive study of nomenclature, causes of tectonic deformation, sedimentary processes and environments, and stratigraphic principles. Laboratory (F)

3714 Structural Geology. Prerequisite: 2224, Physics 2524 or concurrent enrollment. An introduction to the concepts of stress, strain, the mechanisms of rock deformation, the mechanics of folding and fracturing, and description of structural styles in various tectonic settings. Laboratory (F)

3732 Survey of Petroleum Exploration Technology. Prerequisite: 1114 or concurrent enrollment; or permission. Laboratory included. Field trips; students will be charged transportation costs. Techniques of geologic fieldwork. Use of Brunton compass, alidade and plane table and topographic maps. Field examination of common geologic situations. Field exercises. Laboratory (Sp)


paleoecology and stratigraphic paleontology. Brief treatments of biogeochemistry and paleobiogeography. Laboratory (F)

3633 Introduction to Oceanography. General survey of the scientific framework of the four specialties of the oceanographic study—biological, chemical, geological/geophysical and physical oceanography. Applications of ocean research to social and economic problems; interrelations between the ocean disciplines and fields of study. (Sp) (II-N)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. Covers topics not usually presented in the regular courses.

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Subjects covered vary. Deals with concepts not usually treated in regular courses.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field.

4103 Regional Tectonics and Orogeny (Slashed with 5103). Prerequisite: 3114 or permission of the instructor. Overview of tectonic processes that shape the interior of the earth. Topics include plate margin characteristics, theories of driving mechanisms, and regional tectonics analysis of modern and ancient plate margins and orogenic systems. No student may earn credit for both 4103 and 5103. (F)

G4113 Depositional Systems and Stratigraphy. Prerequisite: 3114, 3233 or permission. Basic stratigraphic principles as well as reconstruction of ancient depositional systems. The controls on deposition of stratigraphic sequences, completeness of the rock record, biostratigraphy, magnetostratigraphy, and seismic stratigraphy. Field trip; students will be charged transportation costs. Laboratory (F)

G4133 Petroleum Geology for Geoscientists. Prerequisite: 1104 or 1114; or senior standing. Lectures will integrate at a quantitative level several fields of geology with geophysics, geochemistry and engineering that comprise the science of petroleum geology. The history of the petroleum industry, the location and amount of major reserves of oil and gas, and the potential for development of unconventional hydrocarbon resources will be covered. Labs will cover the types of data acquired during the drilling and testing of wells and the interpretation of these data, the analysis of well logs, use of logs and other subsurface data for correlation and mapping manually and using computer software. Recent tools and technological developments will be covered. Laboratory (F)

4136 Field Geology. Prerequisite: 3123; senior standing or permission. A six-week summer course held at the Oklahoma Geology Camp at Canon City, Colorado. Applications of field techniques, including use of aerial photographs, construction of geological maps and geological methods, to the recognition and interpretation of geological phenomena. (Su) (V)

4143 Petroleum Geology for Business Majors. Prerequisite: 1104 or 1114. The integration of several fields of geology with geochemistry, geophysics, and engineering to provide an overview of the science and technology used in the exploration for and development of oil and natural gas fields. Briefly covers historical development of petroleum geology, amount and location of the world's major oil and gas reserves, and future potential for conventional and non-conventional hydrocarbon resources. (F)

G4233 Subsurface Methods. Prerequisite: 3114, 4113, and senior standing. Introduction to and the application methods used to obtain geological data from the subsurface. Review of data sources and interpretation techniques. Methods for quantifying displaying geological data as maps, cross-sections, and 3-D volumes. Use of geological database, mapping, and display software. (Sp)

4373 History of Geology (Slashed with 5373). Prerequisite: junior standing. History of science and the scientific method with an emphasis on geology. Greek science, scholasticism, Copernican revolution Francis Bacon, principle of uniformity, evolution, continental drift, climate, progress. Discussion of writings by Plato, Cicero, Kuhn, Popper, Chamberlin, Gilbert, Hubbert and others. No student may earn credit for both 4373 and 5373. (F)

4413 Paleobotany (Crosslisted with Botany 4413; Slashed with 5413). Prerequisite: permission of instructor. Introduction to the fossil record of terrestrial plants from algae to flowering plants. Physical properties of geologic materials and fluids, Free convection, compaction- and gravity-driven flow. Role of fluids in geologic phenomena, including mineralization, metamorphism, hydrocarbon migration, sedimentary diagenesis, faulting and earthquakes, paleomagnetism. Application of geologic and geophysical techniques to fluid flow problems.

4864 Geomicrobiology (Slashed with 5864; Crosslisted with Microbiology 4864). Prerequisite: Microbiology 3813 or permission of instructor. Life below the earth's surface. Bacterial degradation of pollutants. Petroleum microbiology. Role of microorganisms in geochemical cycling of carbon, sulfur, and metals. No student may earn credit for both 4864 and 5864. (F)

G4970 Seminar. 1 to 3 hours. Prerequisite: permission. May be repeated; maximum credit nine hours. (F, Sp)

4983 Senior Thesis in Geology. Prerequisite: senior standing with a major in geology and permission. May not be repeated. Individual research of a geological topic selected by the student in consultation with the instructor. The project may involve fieldwork, theoretical analysis, computer modeling, and/or data analysis and interpretation, culminating in a written thesis. (F, Sp, Su)

4990 Independent Study. 1 to 3 hours. Prerequisite: courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit nine hours. Contracted independent study for topics not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5003 Diagenesis. Prerequisite: twenty-six hours of geology or geophysics or permission. Origin and interpretation of diagenetic features of sedimentary rocks, including porosity, permeability, fluid flow, compaction and cementation. Geochemical approaches are stressed. Laboratory (Irreg.)

G5010 Paleomagnetism/Diagenesis Seminar. One to two hours. Prerequisite: Senior or graduate standing; GPHY 3564 suggested. Seminar includes presentations by the professor on research topics as well as presentations by students on current research. In addition, each student will also make at least one presentation on their research. Also, students will work through a self-instruction lab with the microscopes. Focuses on recognizing diagenetic features that are important for paleomagnetism. May be taken for a total of six (6) credit hours. (F, Sp)

G5020 Sedimentology and Stratigraphy Seminar. Prerequisite: graduate standing. May be repeated; with change of content; maximum credit twelve hours. Directed seminar on selected aspects of sedimentology and stratigraphy. (F, Sp)

G5030 Petrology Seminar. Topic presentations and discussions in hard-rock petrology, and related geochemistry and mineralogy, given by faculty, graduate students, and visiting school colloquium speakers. May be repeated for a total of 12 credit hours.

G5103 Regional Tectonics and Orogeny (Slashed with 4103). Prerequisite: 3114 or permission of the instructor. Overview of tectonic processes that shape the interior of the earth. Topics include plate margin characteristics, theories of driving mechanisms, and regional tectonics analysis of modern and ancient plate margins and orogenic systems. No student may earn credit for both 4103 and 5103. (F)

G5123 Mechanics of Crustal Structures. Prerequisite: 3114, Mathematics 2433, graduate standing or permission of instructor. Introduction to the deformation of shallow crustal materials with emphasis on sedimentary rocks. Includes a review of stress and strain, material properties of rocks, mechanisms of brittle and ductile deformation, and mechanics of folding, faulting, and salt tectonics. (Sp)

G5130 Advanced Field Geology. 1 to 6 hours. Prerequisite: permission. Supervised fieldwork on specific field problems. (Irreg.)

G5134 Applied Reservoir Characterization. Prerequisite: permission of instructor. Geological mapping; well log interpretation; 3-D geological modeling; reservoir characterization methodology; reservoir simulation and upscaling; reservoir heterogeneity classification. (Irreg.)

G5173 Clastic Facies. Prerequisite: 3233 or 4113 or equivalent. Bedforms, sedimentary structures, flow regime, intrinsic versus extrinsic controls on sedimentation, ancient depositional environments and depositional models (alluvial fan, fluviu, deltaic, lacustrine, eolian, shelf, etc.). (F)

G5204 Vertebrate Paleobiology (Crosslisted with Zoology 5204). Prerequisite: Zoology 1114, 1121, 2204; or permission. Field trips.
Systematics, relationships, zoogeography, and evolutionary morphology of the major groups of vertebrates. (Irreg.)

G5233 Introduction to X-Ray Diffraction and Spectroscopy. Prerequisite: 2224 or Engineering 2313 or permission. The experimental methods involved and the principal applications. Laboratory included. Laboratory (F)

G5323 Advanced Stratigraphic Concepts. Prerequisite: senior or graduate standing. Generation and presentation of sedimentary successions; methods of stratigraphic analysis; sequence stratigraphy and cyclostratigraphy; tectonic, eustatic, and climatic influences of sedimentary successions. (Sp)

G5343 Stable Isotope Geochemistry. Prerequisite: Chemistry 1315, 1415; senior or graduate standing. Focuses on the stable isotopes of light elements (C, H, O, N, S) in the various processes that have resulted in their redistribution over geologic time. (Alt. F)

G5363 Carbonate Geology. Prerequisite: twenty-six hours of geology and geophysics, or permission. Students will be charged field trip costs. Petrology and petrography of modern and ancient chemical rocks, the reconstruction of their physical/chemical depositional and diagenetic environments in time and space; applied interpretation of cores, petrophysical logs, and seismic; five-day field trip to the Florida Keys. (Irreg.)

G5373 History of Geology (Slashlisted with 4373). Prerequisite: graduate standing. History of science and the scientific method with an emphasis on geology. Greek science, scholasticism, Copernican revolution, Francis Bacon, principle of uniformity, evolution, continental drift, climate, progress. Discussion of writings by Plato, Geike, Kuhn, Popper, Chamberlin, Gilbert, Hubbert and others. No student may earn credit for both 4373 and 5373. (F)

G5413 Paleobotany (Crosslisted with Botany 5413; Slashlisted with 4413). Prerequisite: permission of instructor. Introduction to the fossil record of terrestrial plants from algae to flowering plants. Lectures will address anatomy, morphology, taphonomy and paleoecology, including climate and plant-animal interactions. Laboratories will put lecture topics into practice using fossil plants from the Oklahoma Museum of Natural History collection and from fieldwork. Field trips. No student may earn credit for both 4413 and 5413. Laboratory (Sp, even-numbered years)

G5443 Formation Damage (Crosslisted with P E 5443). Prerequisite: graduate standing or permission of instructor. This course presents an overview of the common formation damage processes, mechanisms, theories, and parameters; methods for diagnosis, determination, and control of formation damage; and application for mathematical models for analysis of laboratory and field data. (Irreg.)

G5513 Evolutionary Paleoecology (Slashlisted with 4513). Prerequisite: 3513. Evolutionary patterns in the fossil record. Time resolution and bias in fossil assemblages. Taxonomic diversity and community replacement over geologic time. Mass extinctions and evolutionary radiations. (Irreg.)

G5813 Basin Analysis for Oil and Gas. Prerequisite: permission. Development of exploration guidelines to oil and gas (origin, migration, accumulation) based on regional tectonic styles and related time and place associations of structure, sedimentation, heat history and fluid pressures. Laboratory (F)

G5843 Economic Geology—Metallic Deposits. Prerequisite: 3114. Introductory study of the important metallic ore deposits of the world; geology, origin and economic features of the deposits. (Irreg.)

G5853 Groundwater and Seepage (Crosslisted with Civil Engineering 5853). Prerequisite: graduate standing in civil engineering, environmental science or geology or permission. An applied course dealing with properties of aquifers, modeling of groundwater flow, groundwater hydrology and its interrelation with surface water, well hydraulics, pumping tests and safe yield of aquifers. (F)

G5864 Geomicrobiology (Slashlisted with 4864; Crosslisted with Microbiology 5864). Prerequisite: Microbiology 3813 or permission of instructor. Life below the earth's surface. Bacterial degradation of pollutants. Petroleum microbiology. Role of microorganisms in geochemical cycling of carbon, sulfur, and metals. No student may earn credit for both 4864 and 5864. (F)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Special Studies. 1 to 3 hours. Prerequisite: permission. May be repeated; maximum credit nine hours. Advanced special studies in geological problems. May include directed reading in geology, fieldwork, laboratory research or preparation of reports. (F, Sp, Su)

G6103 Petroleum Geochemistry. Prerequisite: graduate standing in geology or chemistry. An introduction to the basic concepts of petroleum geochemistry and their role in exploration. Includes the biomarker concept, pyrolysis techniques, isotopes in petroleum exploration, basin modeling and kinetic studies, organic petrography and detailed studies of a number of case histories. (Irreg.)

G6233 Electron Microbeam Methods for the Earth and Materials Sciences. Prerequisite: graduate standing and permission of instructor. Provides the background necessary to effectively use electron microbeam (scanning electron microscope, electron microprobe) techniques to conduct spatial and compositional characterization of materials. Objectives include: to become familiar with the basic principles of the electron microscope, to be able to collect and interpret electron microbeam data, to use this information to solve problems in Earth and materials sciences. Laboratory (F)

G6283 Seismic Reservoir Modeling (Crosslisted with Petroleum Engineering 6283). Prerequisite: Graduate standing or permission of instructor. This course is designed to explore the seismic response of rocks and how it is related to petrophysical parameters. This understanding is key to interpretation of seismic data in terms of subsurface rocks and fluids. (F)

G6433 Topics in Petrology and Plate Tectonics. Prerequisite: graduate standing in geology or geophysics or permission of instructor. May be repeated with change of subject matter; maximum credit six hours. Geological processes at plate margins with emphasis on the relationship between structural and petrologic features: plate kinematics and petrotransformations: the origin of mountain belts, basins, and rock suites at convergent, divergent, and transform boundaries. (Irreg.)

G6950 Research. 1 to 4 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated with change of content; maximum credit twelve hours. Individual research in various areas of geology. (F, Sp, Su)

G6960 Directed Readings. 1 to 6 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated; maximum credit six hours. Supervised reading at an advanced graduate level. (F, Sp, Su)

G6970 Seminar. 1 to 4 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated with change of subject matter; maximum credit twenty hours. Directed seminar on selected aspects of geologic knowledge and inquiry. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. 2 to 16 hours. (F, Sp, Su)

Geophysics (GPHY)

1104 Adventures in Geophysics. The basic principles of remotely probing the Earth’s shallow subsurface (geophysics) will be introduced through a series of existing case studies (adventures) such as the one served as the basis for “Jurassic Park.” This course will also provide students with the opportunity for “hands-on” experience with high-tech geophysical tools. (Sp) [II-NL]

3413 Principles of Geophysics. Prerequisite: Mathematics 2423; Physics 2524; or equivalent or permission. A survey of current methods of geophysical measurements and their interpretations. The earth’s gravity, magnetic, seismic, mechanical and thermal properties will be discussed. (Sp)

3423 Introductory Petroleum Geology and Geophysics. Prerequisite: Geology 1114, Mathematics 2423, Physics 2514, and Geology 3003. Fundamentals of the utilization of geological and geophysical data in the exploration for and development of petroleum reserves. Fundamental principles, geological and geophysical data acquisition, processing and interpretation. (Sp)

4102 Advanced Field Geophysics (Slashlisted with 5102). Prerequisite: senior standing. Provides students with practical experience in designing and executing geophysical field studies as well as experience in interpreting the acquired data. Basic principles are reviewed at the beginning of the course. Up to five field studies will be performed and students will process and interpret processed data. No student may earn credit for both 4102 and 5102. (F)

G4114 Environmental and Geotechnical Geophysics I. Prerequisite: Mathematics 2434, Physics 2524, or permission of instructor. Part of a two-semester sequence covering the major geophysical tools for environmental and geotechnical problems. Focus on characterizing shallow geologic stratigraphy and structure. This geologic information is applied to geotechnical and environmental concerns such as choice of landfill site, the containment of fluid pollutants in the subsurface, and geotechnical assessment. Techniques to be covered include seismic refraction, seismic reflection, and gravity. (F)

G4124 Environmental and Geotechnical Geophysics II. Prerequisite: Mathematics 2433, Physics 2524, or permission of instructor. Part of a two-semester sequence covering the major geophysical tools for environmental and geotechnical problems. Consider techniques used to locate and identify isolated targets such as buried tanks, drums, pits, and trenches. Techniques to be covered include magnetics, resistivity, electromagnetic induction, and ground penetrating radar. (Sp)

4243 Computational Geosciences (Slashlisted with 5243). Prerequisite: Mathematics 1823, 2423, 2433 and 2443. MATLAB is a C-based
programming environment that has become a standard in scientific computing. This course begins with basic concepts of MATLAB programming and then proceeds to one-, two-, and three-dimensional graphics, interpolation and filtering. No student may earn credit for both 4243 and 5243. (F)

G4874 Seismic Exploration. Prerequisite: Physics 2524; Mathematics 2434 or concurrent enrollment. Lectures and laboratory/problem sessions covering theory and applications of field exploration and interpretation using seismic and surface gravimetric methods. Emphasis is on the common-depth-point reflection method. (F)

4953 Senior Thesis in Geophysics. Prerequisite: senior standing with a major in geophysics and permission. May not be repeated. Individual research of a geophysical topic selected by the student in consultation with the instructor. The project may involve fieldwork, theoretical analysis, computer modeling, and/or data analysis and interpretation, culminating in a written thesis. (F, Sp, Su) V

G4970 Seminar. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit nine hours. (F, Sp)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit nine hours. Contracted independent study for topics not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5003 Rock Physics for Geophysical Applications. Prerequisite: graduate standing. Introduction to rock physics for geophysical applications; rock properties; elastic constraints; link to geophysical response; empirical relationships; poroelasticity; attenuation; dispersion; fluid properties; fluid substitution; prediction of velocities; anisotropy applications. (F)

G502 Advanced Field Geophysics (Slashed with 4102). Prerequisite: graduate standing. Provides students with practical experience in designing and executing geophysical field studies as well as experience in interpreting, mapping, and analysis of acquired data. Basic principles are reviewed at the beginning of the course. Up to five field studies will be performed and students will process and interpret processed data. No student may earn credit for both 4102 and 5102. (F)

G5243 Computational Geosciences (Slashed with 4243). Prerequisite: Mathematics 1823, 2423, 2433 and 2443. MATLAB is a C-based programming environment that has become a standard in scientific computing. This course begins with basic concepts of MATLAB programming and then proceeds to one-, two-, and three-dimensional graphics, interpolation and filtering. No student may earn credit for both 4243 and 5243. (F)

G5364 Paleomagnetism. Prerequisite: permission. Concerns the magnetic properties of minerals and rocks and the physical and chemical processes which produce them. Laboratory techniques used in investigations are discussed. (F)

G5513 Introduction to Seismic Processing. Prerequisite: Physics 2524, Math 3333, or permission. Introduction to 2-D seismic data processing, the critical link between acquisition and interpretation. Extensive use of mathematical software for theory as well as complimentary state-of-the-art industry software on selected marine and land seismic data sets from around the world. Topics addressed include the theoretical and applied analysis of the acquisition array models, temporal and spatial sampling, noise, wavelet non-stationary, amplitude normalization, FFT and IFFTs, filter theory, predictive, signature, and spike deconvolution, F-K filtering, velocity analysis, and migration. Students will process from beginning to completion their own seismic lines. (F)

G5613 Introduction to Seismic Stratigraphy. Prerequisite: Physics 2524, Mathematics 3333, or permission. Introduction to the stratigraphic interpretation of reflection seismic data, emphasizing 2-D exploration seismic reflection group analysis. Topics covered include the theory and practice of borehole constrained interpretation, analysis, and mapping of seismic sequences, fault mechanical stratigraphy, chronostratigraphy, seismic facies, relative changes in sea level, and integrated geohistory analysis with emphasis upon providing a foundation for petroleum system analysis. Seismic sections for the analyses are taken from varying tectonic and depositional settings worldwide. (Ar. F)

G5713 Solid Earth Geophysics. Prerequisite: Mathematics 2434, Physics 2524, or permission of instructor. An introduction to the physical and chemical origins of the earth and its development through pregeologic and geologic history, as inferred from modern cosmology, geochemistry, geomagnetism, seismology and satellite gravity data. The dynamic processes occurring in the earth are emphasized. (F)

G5723 Tectonophysics. Prerequisite: Physics 2524, Mathematics 3333, Geology 5813 or permission. Strongly recommended are 5713 or 5813. Overview of tectonics of plates through the integration of geology and geophysics. Theory, analysis, and modeling of the creation, modification, and destruction of plates, basins, and mountains through geologic time and space through the integration of borehole and outcrops with geologic geophysical disciplines as: earthquake seismology, refraction geophysics, reflections geophysics, heat flow, magnetics, and gravity. Required fieldtrip to the western U.S. (G)

G5813 Geomechanics. Prerequisite: Mathematics 2434, Physics 2524, or permission of instructor. The mechanical, dynamic and thermal properties of the earth’s lithosphere and asthenosphere will be discussed. Specific topics: lithospheric flexure—elastic, plastic and viscoelastic; isostasy; the formation and thermal history of oceanic lithosphere; and the thermal and mechanical development of sedimentary basins. (Sp)


G5864 Gravimetric and Magnetic Exploration. Prerequisite: Mathematics 2434, Physics 2524, or permission of instructor. Lectures and laboratory/problem sessions covering theory and applications of gravimetric and magnetic exploration. Includes potential theory, filtering, modeling and interpretation. Emphasis is on exploration for minerals, oil and gas. Concepts of geodesy and isostasy are briefly considered. Laboratory (Sp)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum applicable toward degree, four hours. (F, Sp, Su)

G5990 Special Studies. 1 to 3 hours. Prerequisite: permission. May be repeated; maximum credit nine hours. Advanced special studies in geophysical problems. May include directed reading in geophysics, fieldwork, laboratory research or preparation of reports. (F, Sp, Su)

G6013 Near-Surface Geophysical Imaging. Prerequisite: graduate standing. Presents the mathematical basis and algorithms for near-surface geophysical imaging. These techniques are based on standard measurement configurations for seismic and radar surveys. Students will learn to implement these imaging algorithms using MATLAB programming. (F)

G6174 Advanced Seismic Exploration. Prerequisite: 4874. A survey of the latest concepts of exploration seismology including the use of integral transforms and information theory as applied to the digital processing of seismic data. (Irreg.)

G6232 Advanced Seismic Processing. Prerequisite: 5513, or permission. Advanced topics in 2-D and 3-D seismic data processing. Theory and practice with intensive use of mathematical software on selected 2-D and 3-D seismic data sets from around the world. Topics addressed include processing design for complex geologies, advanced amplitude-phase-frequency normalization techniques, advanced filter design including time and spatially variant processes, Q analysis, linear and parabolic Tau-P filtering, 2-D and 3-D AVO data preparation, inversion, and analysis, DMO, pre-stack depth migration, finite-difference, Stolt, Kirchhoff, and other time and depth migration and cascaded model-driven migration methods, surface consistency, coherence, and other topics. (Alt. Sp)

G6623 Advanced Seismic Stratigraphy. Prerequisite: 5613 or permission of instructor. Advanced topics of theory and practice in seismic stratigraphy with a focus on anisotropic data analysis on 3-D and 4-D development geophysical settings. Topics covered include the theory and practice of modeling, interpreting, and mapping principle reservoir characterization tools: velocities, frequency, phase, attributes, 2-D and 3-D AVO, and DHi’s as well as the seismic characterization of wedges and fans (delta and turbidites), and carbonate buildups (reefs and banks). Seismic projects are taken from various fields worldwide and include the integration of borehole petrophysical data. (Alt. Sp)

G6874 Applied Seismic Modeling. Prerequisite: 4874. Theory and use of seismic ray tracing and traveltime modeling in survey design, testing or processing algorithms, and interpretation. Methods are developed in 1-, 2-, and 3-dimensions and focus on asymptotic ray theory. The lab requires formulation, solution, and class presentation of a ray tracing problem of the student’s choice. Laboratory (Irreg.)

G6950 Research. 1 to 4 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated with change of content; maximum credit twelve hours. Individual research in various areas of geophysics. (F, Sp, Su)

G6960 Directed Readings. 1 to 6 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated; maximum credit nine hours. Advanced special studies in geophysical problems. May include directed reading in geophysics, fieldwork, laboratory research or preparation of reports. (F, Sp, Su)

G6970 Seminar. 1 to 4 hours. Prerequisite: graduate standing, permission. May be repeated with change of subject matter; maximum credit twenty hours. Directed seminar on selected aspects of geophysical knowledge and inquiry. (F, Sp)
Geosciences (GEOS)

2004 Evolution of the Earth System. Prerequisite: none. Overview of the earth from a systems perspective. Draws on knowledge from all geosciences to explore interconnections and co-evolution of the solid earth, atmosphere, oceans, and living things. Evolution of the Earth's climate over geologic time including the hydrologic cycle, carbon, cycle, and "greenhouse effect". Role living things play in the global environment. Extensive use of numerical models to explore structure and response of the Earth system. Students may find it helpful to have taken either Geography 1114, or Geology 1104, or Meteorology 1014. Laboratory (F) [II-LAB]

2014 The Earth System. An integrated overview of earth sciences emphasizing earth materials, the oceans and atmosphere, the solar system, and earth's evolution. The interrelationship among the different earth systems will be emphasized. Topics will be explored through a learning-cycle approach. The lab component includes both in-class experiments and one field-based research project. Laboratory (Sp) [II-LAB]

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. Covers topics not usually presented in the regular courses.

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Subjects covered vary. Deals with concepts not usually treated in regular courses.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (Irreg.)

G4970 Seminar. 1 to 9 hours. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. Subjects covered vary. Deals with interdisciplinary concepts in geosciences not usually treated in regular courses. (Irreg.)

4990 Special Studies. 1 to 4 hours. Prerequisite: Permission of instructor, upper-division standing. Contracted special problems study for topics not currently offered in regularly scheduled courses; may include library and/or laboratory research and field projects.

G5510 Selected Topics. 1 to 9 hours. Prerequisite: permission of instructor. May be repeated; maximum credit nine hours. Current or special topics relating to the geosciences; may be structured for students in other areas. (Irreg.)

German (GERM)

1013 Beginning German for Reading. Prerequisite: graduate standing. Elective credit only. Designed as initial preparation for the advanced-degree reading examination. (F)

1023 Beginning German for Reading. (Continued) Prerequisite: 1013. Elective credit only. Designed as initial preparation for the advanced-degree reading examination. (Sp)

1115 Beginning German. An elementary course in understanding, speaking, reading and writing German. (F, Sp) Su [I-FL]

1225 Beginning German. (Continued) Prerequisite: 1115. An elementary course in understanding, speaking, reading and writing German. (F, Sp) Su [I-FL]

2113 Intermediate German. Prerequisite: 1225. Develops reading skills and control of grammar. Emphasis on expansion of vocabulary and strong reinforcement of grammatical structures. Reading and discussion of tests of literary and cultural interest. Oral and written assignments. (F, Sp)

2223 Intermediate German. (Continued) Prerequisite: 2113. (F, Sp)

2321 German Composition and Conversation. Prerequisite: 2113. Exercises in oral and written German. Reading of cultural and literary texts of contemporary interest. Emphasis on writing and speaking German. (F, Sp)

3013 Scientific German. Prerequisite: 1023 or 1225. Training in the reading of scientific material of gradually increasing difficulty. (Irreg.)

3121 Scientific German II. Prerequisite: 3013. Continuation of 3013. Training in the reading of scientific material of gradually increasing difficulty. (Irreg.)

+G3423 Advanced German Composition. Prerequisite: 2323. The inculcation of proper writing habits, at an advanced level, toward the achievement of idiomatic German. (Sp)

+G3523 Advanced Conversation. Prerequisite: 2223 and 2323. Practice in conversational skills at an advanced level. (Sp)

3623 Business German. Prerequisite: 2223. Introduces German business language as used in retail/wholesale, export/import, transport, and media. Will also familiarize the student with the European Union and cultural aspects of the German speaking business world. (F)

3723 German for the European Market. Prerequisite: 2223. German business language as used in banking transactions, marketing, business letters, and business firms such as corporations, general and limited partnerships, and trade unions. How to respond to claims by firms in European countries and how to establish subsidiaries in another European country. Prepares students to take the “Prüfung Wirtschaftsdeutsch” (International Certificate in Business German). (Sp)

3853 Literature and Film. Prerequisite: 2223 and 2323. Introduction to representative works of contemporary German literature and film. Within the context of reading and writing assignments and the viewing and discussion of films, the course is designed to improve language skills and knowledge of German culture. (Sp)

The prerequisite for courses numbered 3900-4999 is seventeen hours of German. Other specific prerequisites are so indicated.

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered vary. The content deals with concepts not usually presented in regular coursework.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp)

4003 History of the German Language (Slashlisted with 5003). Prerequisite: 3423, 3853. Linguistic, cultural, and social evolution of the German language from Indo-European times to the present. Additional emphasis is given to the place of German within the Germanic family of languages and to significant socio-linguistic issues in German-speaking countries as they enter the new millennium. No student may earn credit for both 4003 and 5003. (F)

4113 The Middle Ages (Slashlisted with 5113). Prerequisite: 3423, 3853. Secular and religious literature of medieval Germany, Austria, Switzerland, and the Netherlands discussed within the international cultural context of the European Middle Ages. No student may earn credit for both 4113 and 5113. (Alt. F)

G4313 Culture and Literature I. Prerequisite: 3423 or 3853. From the beginnings until the end of the seventeenth century. A survey of literature, art, religion, social relations, music and history. (F)

G4323 Culture and Literature II. Prerequisite: 3423 or 3853. From 1700 to 1900. A survey of literature, art, philosophy, social relations, music and history. (F)

G4333 Culture and Literature III. Prerequisite: 3423 or 3853. From 1900 to the present. A survey of literature, art, film, social relations, music and history. (Sp) [V]

4433 German Classicism and Romanticism (Slashlisted with 5433). Prerequisite: 3423, 3853. A comprehensive study of the characteristics of Classicism and Romanticism in contemporary literature, theory and techniques. No student may earn credit for both 4433 and 5433. (Alt. F)

4603 The Sixteenth and Seventeenth Centuries (Slashlisted with 5603). Prerequisite: 3423, 3853. A survey of the main literary movements of the period with concentrated study on the works of its principal writers. No student may earn credit for both 4603 and 5603. (Alt. Sp)

4633 Enlightenment and Sturm und Drang (Slashlisted with 5633). Prerequisite: 3423, 3853. A study of the literature and literary techniques of the Enlightenment and the reaction thereto expressed in Sturm und Drang fiction and theory. No student may earn credit for both 4633 and 5633. (Alt. F)

4643 The Nineteenth Century (Slashlisted with 5643). Prerequisite: 3423, 3853. A study of the literature and literary techniques of Poetic Realism with emphasis on the drama and the novella. No student may earn credit for both 4643 and 5643. (Alt. F)

4663 Early Twentieth Century Literature (Slashlisted with 5663). Prerequisite: 3423, 3853. A study of the literature and theory of the first half of the twentieth century. Special attention will be given to naturalism, impressionism, and expressionism. No student may earn credit for both 4663 and 5663. (Alt. F)

4773 Post-1945 German Literature and Culture in Modern Europe (Slashlisted with 5773). Prerequisite: 3423, 3853. Study of selected prose, poetry, and drama written after World War II in Austria, East Germany, Switzerland and West Germany, within the context of cultural and economic
changes. Also includes contemporary German films. No student may earn credit for both 4773 and 5773. (F) [IV-WC]

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp)

The prerequisite for courses numbered 5000 and over is twenty-five hours of German. Other specific prerequisites are as indicated.

G5003 History of the German Language (Slashed with 4003). Prerequisite: Graduate standing. Linguistic, cultural, and social evolution of the German language from Indo-European times to the present. Additional emphasis is given to the place of German within the Germanic family of languages and to significant socio-linguistic issues in German-speaking countries as they enter the new millennium. No student may earn credit for both 4003 and 5003. (F)

G5113 the Middle Ages (Slashed with 4113). Prerequisite: Graduate standing. Secular and religious literature of medieval Germany, Austria, Switzerland, and the Netherlands discussed within the international cultural context of the European Middle Ages. No student may earn credit for both 4113 and 5113. (Alt. F)

G5253 Goethe’s Faust. Prerequisite: Graduate standing. Intensive study of Faust I, Faust II, and the Urfaust. The social and cultural history of the Faust figure, up to Goethe’s Faust, will also be explored. (Irreg.)

G5433 German Classicism and Romanticism (Slashed with 4433). A comprehensive study of the characteristics of Classicism and Romanticism with emphasis on contrasts in philosophy and literary techniques. No student may earn credit for both 4433 and 5433. (Alt. F)

G5603 The Sixteenth and Seventeenth Centuries (Slashed with 4603). A survey of the main literary movements of the period with concentrated study on the works of its principal writers. No student may earn credit for both 4603 and 5603. (Alt. Sp)

G5633 Enlightenment and Sturm und Drang (Slashed with 4633). A study of the literature and literary techniques of the Enlightenment and the reaction thereto expressed in Sturm und Drang fiction and theory. No student may earn credit for both 4633 and 5633. (Alt. F)

G5643 The Nineteenth Century (Slashed with 4643). A study of the literature and literary techniques of Poetic Realism with emphasis on the drama and the novel. No student may earn credit for both 4643 and 5643. (Alt. F)

G5663 Early Twentieth Century Literature (Slashed with 4663). Prerequisite: Graduate standing. A study of the literature and theory of the first half of the twentieth century. Special attention will be given to naturalism, impressionism, and expressionism. No student may earn credit for both 4663 and 5663. (Alt. F)

G5773 Post-1945 German Literature and Culture in Modern Europe (Slashed with 4773). Prerequisite: Graduate standing. Study of selected prose, poetry, and drama written after World War II in Austria, East Germany, Switzerland and West Germany, within the context of cultural and economic changes. Also includes contemporary German films. No student may earn credit for both 4773 and 5773. (F)

G5910 Problems in Research. 2 to 4 hours. May be repeated with change of content; maximum credit nine hours. An interdisciplinary seminar variable in content changing with each seminar. Seminars are led by prominent national and international scholars and leaders coordinated with a current faculty member in their area of expertise. Emphasis is on enrichment and exploration with scholars to investigate ideas and issues affecting the future of humanity. (F, Sp)

G5990 Graduate Special Topics. 1 to 4 hours. Prerequisite: graduate standing and permission of instructor. May be repeated with change of topic; maximum credit twelve hours. Selected topics in graduate areas not usually covered in traditional courses. For any particular section there may be additional prerequisites required. (F, Sp, Su)

G6990 Graduate Advanced Special Topics. 1 to 4 hours. Prerequisite: graduate standing and permission of instructor. May be repeated with change of content; maximum credit twelve hours. Selected advanced topics in graduate areas not usually covered in traditional courses. For any particular section there may be additional prerequisites required. (F, Sp, Su)

Greek (GRK)

1115 Beginning Greek. Introductory study of the vocabulary and grammar of the Greek language. Some practice in the reading of simple Attic prose; usually excepts from Xenophon's Anabasis. (F, Sp, Su) [I-FL]

1215 Beginning Greek. Prerequisite: 1115, or first year Greek in high school. Introductory study of the vocabulary and grammar of the Greek language. Some practice in the reading of simple Attic prose; usually excepts from Xenophon's Anabasis. (Sp) [I-FL]

The prerequisite for 2000-level courses is 1215 or the equivalent.

2113 Intermediate Prose. Select passages from Plato's minor works, with grammatical and literary interpretation. (F)

The prerequisite for 3000-level courses is one 2000-level course or the equivalent.

FG3113 Advanced Prose. May be repeated with change of subject matter; maximum credit six hours. Readings in Plato: Crito and Apology; Lysias: Select Orations; Demosthenes: De Corona. (Sp)

FG3213 Homer. May be repeated with change of subject matter; maximum credit six hours. Select passages from the Iliad and the Odyssey, with particular attention to the peculiarities of the Homeric dialect. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program and one intermediate Greek course. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to the Honors Program and one intermediate Greek course. May be repeated; maximum credit six hours. Will provide an opportunity for the honors candidate to work at a special project in the student's field.

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be continued; permission of instructor and department. May be repeated; maximum credit six hours. Independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

The prerequisite for 4000-level courses is one 3000-level course or the equivalent.

G4213 Drama: Aeschylus, Sophocles, Euripides, Aristophanes. May be repeated with change of subject matter; maximum credit nine hours. Extensive reading in representative tragedies and comedies of the Athenian dramatists. Supplementary studies in the development of the Greek theatre and its drama. (F)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

The prerequisite for 5000-level courses is graduate standing or one 4000-level course or the equivalent.

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F)

G5990 Special Studies. 1 to 4 hours. May be repeated; maximum credit eight hours. Reading and research, arranged and directed in consultation with the instructor, in specified areas of Greek language and literature. (F, Sp)

Graduate College (GRAD)

G5003 Oklahoma Scholar-Leadership Enrichment Program Graduate Seminar. Prerequisite: graduate standing. May be repeated with change of content; maximum credit 12 hours. An interdisciplinary seminar variable in content changing with each seminar. Seminars are led by prominent national and international scholars and leaders coordinated with a current faculty.
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Health and Exercise Science (HES)

The department offers courses which are slalisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a 5000-level course. The lectures in a slalisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slalisted course syllabus.

1021 Beginning Judo. Consists of skill training in the sport of judo and the associated cognitive acquisition of terminology, contest rules and customs. Skills portion will deal with falling techniques, throws, hold downs, chokes and arm bars. Cognitive portion will deal with the training aspects of judo (chi, randori, kata and uchi komi), basic terminology and contest rules. (F, Sp)

1111 Adaptive Physical Education. Limited to disabled students. May be repeated; maximum credit four hours. (F, Sp)

1121 Beginning Weight Training. To learn basic skills of weight training, i.e., warm-up, lifting techniques, training programs, etc.; to condition and strengthen the body through a continuous weight training program; to learn and appreciate the ability of correct weight training to enhance personal fitness and the carry-over value into other sports and activities. (F, Sp, Su)

1131 Intermediate Weight Training. Prerequisite: 1121 or permission. To enhance basic weight training skills by providing a more thorough knowledge of weight training; to learn proper procedures for total physical development; to learn the principles of nutrition and the role it plays in weight training; to learn through proper program design to develop weight training into an overall strength fitness program that can be utilized as a lifetime leisure activity. (F, Sp, Su)

1221 Individual Fitness. May be repeated; maximum credit eight hours. Exercise designed to condition the body for maximum health and fitness; special emphasis on cardiovascular fitness. (F, Sp, Su)

1231 Lifestyle Physical Activity. May be repeated; maximum credit three hours. Learn and practice strategies for incorporating lifestyle physical activity into your daily routine. Perform physical activities such as walking, bicycling, or other of your choice at times convenient to you instead of the two class periods of the week. (Irreg.)

1341 Beginning Bowling. Bowling alley service charge. (F, Sp)

1351 Recreational Activities. May be repeated with change of subject matter; maximum credit three hours. (F, Sp, Su)

1361 Beginning Golf. (F, Sp, Su)

1371 Intermediate Golf. Prerequisite: 1361 or permission. (F, Sp)

1521 Beginning Swimming. (F, Sp)

1531 Intermediate Swimming. Prerequisite: 1521 or permission. (F, Sp)

1552 Water Safety Instruction. Prerequisite: 1561 or American Red Cross Emergency Water Safety course. (Interesession)

1561 Lifeguard Training. Prerequisite: permission of instructor. Introduces the new concept of rescuing victims at all waterfront areas with an emphasis on speed. Will satisfy both federal and state guidelines which are required for all lifeguards. (Interesession)

1661 Beginning Racquetball. Fundamental skills of racquetball, i.e., serving, forehand, backhand, court positions and strategy. (F, Sp, Su)

1681 Beginning Tennis. (F, Sp, Su)

1691 Intermediate Tennis. Prerequisite: 1681 or permission. (F, Sp)

1921 Basketball. Teach a basic understanding of the game of basketball; skills and analysis of skills, nature and rules of the game, and strategies for game situations. (F, Sp, Su)

1941 Soccer. Teach a basic understanding of the game of soccer; the skills and analysis of skills, nature and rules of the game, and strategies for game situations. (F, Sp)

1961 Softball. Teach a basic understanding of the game of softball; skills and analysis of skills, nature and rules of the game, and strategies for game situations. (F, Sp)

1981 Volleyball. Teach a basic understanding of the game of volleyball; skills and analysis of skills, nature and rules of the game, and strategies for game situations. (F, Sp, Su)

2022 Theory of Coaching and Athletic Management. Prerequisite: three hours of biological science and three hours of social science. Introduction to the multifacets of the athletic coaching profession. Presents information to the beginning coach related to administrative relationships, off-season and in-season planning, ethics, recruiting, fund raising, travel planning and equipment purchase and care. (F, Sp)

2131 Introduction to Health and Sport Sciences. Designed to introduce major students to the fundamentals of HSS, including curricular disciplines, basic terminology, career opportunities, and professional associations. Students will also learn basic library research skills and a working knowledge of the support services and technologies available at the University. (F, Sp)

2212 First Aid. Includes the theory related to causes and prevention of accidents, as well as development of sufficient knowledge to determine the nature and extent of injuries. Training focuses on taking proper procedural steps at the proper times. Upon successful completion of the course and if specific requirements, students are awarded the American Red Cross Community First Aid and CPR Certificates. Laboratory (F, Sp)

2223 Outdoor Recreation. Investigation and study of trends and emphasis on governmental and private organizations involved in the development of outdoor recreation for the public. (Sp)

2332 Rhythmic Analysis of Movement (Crosslisted with Dance 2332). Practical and theoretical study of rhythmic analysis of movement including music notation, percussion accompaniment, perception of rhythmic patterns and rhythm skill building. (Irreg.)

2823 Introductory Nutrition (Crosslisted with Clinical Dietetics 1823). Evaluation of basic composition of nutrients and accessory factors required for adequate human nutrition. Application of nutritional principles to the planning of normal and special dietary regimens. [II-NL]

2913 Personal Health. Emphasizes the health knowledge and practices needed for effective living. The course has a holistic focus on personal health and provides both an informational and behavioral basis for health promotion and disease prevention. Topics include: mental health, stress management; fitness; nutrition; alcohol, tobacco, and other drug education; sexuality; and chronic/infectious disease. (F, Sp)

3000 Special Topics in Health and Sport Sciences. 1 to 3 hours. Prerequisite: junior standing or permission of instructor. May be repeated with change of content; maximum credit nine hours. Topics in health and sport sciences not accommodated by the existing curriculum. Example: psychological factors in exercise adherence, i.e., personality traits of select exercise individuals, reinforcement procedures, personal goals as related to exercise needs, etc. (Irreg.)

3021 Sports Officiating. Standards and principles involved in the art of officiating. Laboratory experience required. Speedball, football, and volleyball. WHONOR examinations for women. (F)

3031 Sports Officiating. Same as 3021, with emphasis on basketball, softball, and track and field. (Sp)

3052 Theory of Baseball. Prerequisite: 2022. The sciences of coaching baseball, thorough coverage of the basic fundamentals of defensive and offensive baseball; coaching and teaching techniques; strategy, and administrative duties of the baseball coach. (Irreg.)

3072 Theory of Basketball. Prerequisite: 2022. History and technique of the game basic teaching and coaching of fundamental skills; methods of training and care of equipment. Advanced techniques in offensive and defensive strategy; psychology of handling personnel; scouting assignments. (Irreg.)

3173 Materials and Methods in the Elementary School Physical Education Program. Prerequisite: sophomore standing, permission. Basic philosophy and characteristics of a program of physical education for the elementary school child; how to plan and organize the program; the desirable activities; standards for facilities and equipment; evaluation. (F, Sp, Su)

3253 Recreation Resources–Leisure Environment. Prerequisite: 2132. The historical and philosophical basis of leisure and recreation in modern society; the recreation environment from a regional and urban perspective; and critical issues that face recreation and urban planners and designers. Incorporates population geography and environmental health issues into an analysis of the physical and social environment that supports recreational programming and facility development. Focuses on urban development and the relationship of recreation resources to the aesthetic and mechanics of modern metropolitan areas. (F)

3430 Field Experiences in Health and Sport Sciences. 1 to 4 hours. Prerequisite: junior standing or permission of department. May be repeated with change of activity or advanced position; maximum credit four hours. Field study related to student’s area of interest (athletic coaching, athletic training, exercise science, health promotion, sport management) as approved by the department’s field supervisor of adviser. A contract is required prior to beginning the field experience. The contract will address: statement of purpose, process of submitting reports, on-site evaluations, and written evaluations by student and site supervisor. (F, Sp, Su)

3502 Care and Prevention of Athletic Injuries. Prerequisite: 2212 or equivalent; three hours of biological science and three credit hours of social science. Recognition, cause, prevention, treatment, rehabilitation of athletic injuries; taping methods, protective equipment, and doctor’s recommendations;
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equipping the training room, conditioning the athlete, practice routines and
the athlete's diet. Laboratory (Sp)

3513 Health Promotion Program Planning. Prerequisite: HSS major or
permission of instructor. Discussion of health promotion programming in
disease prevention, risk reduction, and wellness. Understanding the theoretical
issues related to the development and evaluation of health promotion
programs and the behavioral dimensions of health promotion. (F, Sp)

3523 Human Sexuality. Prerequisite: 2913, Psychology 1113. An introduction
to biological, psychological, and sociological concepts which form the
interdisciplinary foundation for studying human sexuality. Current research
findings in all areas will be emphasized. Areas of emphasis will include:
personal, social, sexual, and gender identity development across the lifespan,
interaction and communication within social and intimate relationships, and
reproductive and other health-related sexuality issues. (F, Sp)

3533 AIDS and Its Impact on American Society. Prerequisite: Zoology 1114
and three hours of social science, or permission of instructor. Provide a current
overview of the anatomical and functional aspects of AIDS and HIV
spectrum disorders. Also focus on the psychosocial, educational, legal and
ethical issues which have evolved in this country as a result of our response to
AIDS and HIV.

3563 Lifestyle Interventions. Prerequisite: HSS major or permission.
Examines the relationship between individual behavior and the health status of
a community. Current lifestyle intervention literature will be the focus.
Application of intervention strategies will be presented for school, worksite,
and community settings. (Irreg.)

3803 Exercise Science for Rehabilitation Sciences. Prerequisite: Zoology
2124 or 3103. An introductory study of the principles and concepts of exercise
science as they pertain to the rehabilitation sciences. Theoretical and
scientifically established mechanisms are examined which explain the body's
physiological response, adaptation, and concomitant regulation during acute
and chronic bouts of exercise. Particular emphasis will be placed on
application to physical and occupational therapies. (Irreg.)

3813 Principles of Health and Fitness. Prerequisite: HSS major or permission
department. Study of the underlying principles of life sciences that
contribute to an understanding of the role of physical activity in health, fitness,
and sports medicine. Specific reference to an overview of public health and
disease, anatomy and biomechanics, exercise physiology, health appraisal and
fitness testing and programming, human development and behavior, and
program management. Laboratory (F)

3823 Physiology of Exercise. Prerequisite: 3813, Zoology 2124 or 3103 or
equivalent and permission. An introductory study of principles and concepts of
exercise physiology. Theoretical and scientifically established mechanisms are
explored which explain the body's response, adaptation, and concomitant
regulation during acute and chronic exercise. Applications presented in the
clinical, sport, occupational, and normal exercise settings. Focus is on an
understanding of the body's function from the cellular to systemic level during
exercise. An understanding of assessment and physical training principles to
explain health and performance is emphasized. Specific factors that affect the
physiological bases of human performance are investigated. (Irreg.)

1G3843 Biomechanics. Prerequisite: Zoology 2255, HSS major, or
permission. The integrated study of anatomy, physiology, and mechanics with
emphasis on understanding the anatomical and functional aspects of human
movement in the area of health and sport sciences, such as in clinical, daily
living, and sport applications. (F, Sp)

3853 Exercise Testing and Prescription. Prerequisite: 2913, Psychology 1113
and Zoology 1114, or equivalent; upper-division standing. A multidisciplinary
study of biological and behavioral principles that explain physical activity's role
in nutrition, exercise and weight control strategies. Analysis of the impact of
these principles on health, disease and quality of life. Critical examination of
underlying mechanisms that explain the dose-response activity relationship
between physical activity, health and fitness. (Sp)

3863 Exercise and Health Issues of Women. Prerequisite: 3813 or
permission of instructor. Course focuses on topics related to the effects of
exercise on the health of adult women, including body composition,
reproductive function and hypokinetic diseases. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors
Program. May be repeated; maximum credit six hours. Study of current
research developments in health and sport sciences. An opportunity for the
Honors' candidate to work with a faculty mentor on a research project of
special interest to the student in the health and sport sciences. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors
Program. May be repeated; maximum credit six hours. An opportunity for the
Honors' candidate to work with a faculty mentor on a research project of
special interest to the student. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors
Program. May be repeated; maximum credit six hours. Will provide an
opportunity for the gifted honors candidate to work at a special project in the
student's field. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general
area to be studied; permission of instructor and department. May be repeated;
maximum credit six hours. Contains one independent study course that is not
currently offered in regularly scheduled courses. Independent study may
include library and/or laboratory research and field projects. (F, Sp, Su)

G423 Management in Health and Sport Sciences. Prerequisite: junior
standing, HSS majors only, or permission of instructor. Concentration on
managerial theories, research, and their applications in health and sport
organization and administration. Specific topics include organizational theories,
communication, leadership, motivation, managerial skills, and functions of
management, issues of policies, marketing, and financial aspects of management.
(F, Sp)

4223 Event Organization and Management (Slashed with 5223).
Prerequisite: junior standing; 4283 or Management 3013 or permission
or instructor. Focuses on sport event management theories and practices. Specific
topics include: bidding for a sport event, event organization, management and
principles, protocols, uniqueness of sport event, admission and tickets,
procurement of sponsors, operation of concessions and novelties, security and
medical concerns, transportation and accommodations, international aspects
of event management, coordinators and volunteers, governmental and
community relations. Field trips. (F, Sp)

4233 Psychology of Sport. Prerequisite: Psychology 3703, or equivalent.
Understanding the psychological dimension of behavior of the participant in
sport, analyzing the effect of internal and external stimuli on sports participants;
observing individual and group relationships to competition; and critically
reviewing the motivational, achievement, anxiety, aggressive and social
facilitation aspects of sport. (F)

4234 Sport in American Society (Slashed with 5243).
Prerequisite: Sociology 1113 or permission of instructor. Organized for a lecture-discussion
sequence in which the student will be asked to consider a variety of sport
topics and their role/relationship to life in American society. Topics such as
racism, religion, politics, competition and the role of interscholastic sport in
society will be studied in an attempt to comprehend their impact on everyday
experience. No student may earn credit for both 4243 and 5243.

4430 Internship in Health and Sport Sciences. 4 to 8 hours. Prerequisite:
junior or senior standing and twenty credit hours of HSS major core, or permission
of adviser. May be repeated with change in organization or advanced position
with approval of adviser; maximum credit eight hours. Practical experience in
administration, techniques, organizational structure and appropriate materials
used with health, fitness, or sport related occupations. (F, Sp, Su)

4523 Human Sexuality II. Prerequisite: 3523 or permission, Indepth study of human sexuality from a biopsychosocial perspective which emphasizes
the roles of biology, psychological factors, and social learning. Area studies
will include sexual and gender development across the life span; interaction and
communication within intimate relationships; reproductive and health-related
sexuality topics; and a historical look at the evolution of mating and love
relationships. In addition, students will examine the integration of human
sexuality issues and education in health-related occupations. (Irreg.)

4543 Comprehensive Stress Management. Prerequisite: Psychology 1113,
Zoology 1114, or equivalent. Helps students gain an awareness of stress and its
effects, practice management techniques to reduce personal stress, and
implement those techniques in their daily lives as well as the lives of others
(school, community, corporation, etc.). Topics include: psychophysiology of
stress, stress and disease, nutrition, personal planning and time management,
cognitive restructuring, relaxation, and biofeedback.

4623 Physical Growth and Development. Prerequisite: junior standing, and
health and sport sciences majors only or permission of instructor. Primary
emphasis will be directed toward physical growth systems, maturation, and
patterns of motor development across the lifespan. Secondary discussions will
include principles of motor learning and behavior development as related to
physical growth and development. (F, Sp)

4832 Methods in Teaching Dance (Crosslisted with Dance 4832).
Prerequisite: 2913 or equivalent; permission. Methods of teaching through the creative
approach. Progressions in teaching dance studies and techniques. (F, Sp)

4833 Physiology of Exercise Laboratory. Prerequisite: Health and Sport
Sciences/Zoology 3823 or permission. Laboratory experiments emphasizing
the understanding of fundamental physiological mechanisms, regulatory
responses, and adaptation to exercise. Basic analytical methodologies
pertaining to the energy, muscular and circulatorespiratory systems. Includes

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factors affecting physiological performance capacities and experimental basis of exercise assessment and training. (F, Sp)

4853 Chronic Disease Intervention. Prerequisite: 2913 and 3515. Provide students with a basic understanding of disease process in selected chronic diseases and intervention strategies for risk reduction and chronic disease prevention. Basic principles of epidemiology and chronic disease surveillance will also be covered. (F, Sp)

4863 Physical Activity and Aging. Prerequisite: 2913 and Zoology 2114, or permission of instructor. Discussion of general concepts of aging and the issues related to dying, the expected changes related to aging in the various physiological systems, i.e., body composition, cardiovascular, bone, and skeletal muscle. In addition, exercise programming concerns for the aged as well as the possible benefits of exercise during aging will be discussed. (Irreg.)

G4933 Drug Education. Prerequisite: 2913. Beneficial and harmful uses and effects of drugs. Motivations behind drug abuse, especially among youth, and implications of this problem on the individual, school and society. Consideration given to legislative and educational efforts. Investigation of interpersonal skills and communication interaction techniques. The use of values-clarification techniques. (F)

4953 Senior Capstone. Prerequisite: senior standing and completion of all HSS core courses. An integration and synthesis of the major disciplines of study in the health and sport sciences (HSS). Readings, discussions and research methods will focus on applications and problem solving approaches related to contemporary policy, economic, social and ethical issues. (Irreg.)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5000 Issues and Procedures in Health and Sport Sciences. 1 to 3 hours. Prerequisite: graduate standing or permission of instructor. May be repeated with change of content; maximum credit six hours. Current topics such as the following: exercise prescription for the elderly; adherence to physical activity; exercise/sport; theories of motivation applied to sport; neuropsychology in motor control; personnel policies in public recreation. (Sp, Su)

G5173 Facility Development and Design. Prerequisite: graduate standing or permission. Provides students with a basic introduction to facility design and development. Specific topics to be covered include financing, program implications, site selection and development, architect and contractor selection, equipment and material controls, and on-site supervision. (Irreg.)

G5213 Sport Organization and Management. Prerequisite: graduate standing or permission. Survey course covering fundamental management functions, structural components of sport organizations, management and leadership techniques commonly employed in effective sport organizations, human resource management strategies, and current trends in management. (Irreg.)

G5223 Event Organization and Management (Slashed with 4223). Prerequisite: 5213, graduate standing or permission or instructor. Focuses on sport event management theories and practices. Specific topics include: bidding for a sport event, event organization, management and principles, protocols, uniqueness of sport event, admission and tickets, procurement of sponsors, operation of concessions and novelties, safety and medical concerns, transportation and accommodations, international aspects of event management, coordinators and volunteers, governmental and community relations, field trips. (Irreg.)

G5233 Psychology of Sport. Prerequisite: 4233, or Psychology 3643, or equivalent. Understanding the psychological dimensions of behavior of the participant, spectator, and management in sport, analyzing the effect of internal and external stimulation on individuals and groups; observing individual and group relationships to competition; and critically reviewing the motivational, achievement, anxiety, aggressive and social facilitation theories and situations in sport. (F)

G5243 Sport in America (Slashed with 4243). Prerequisite: graduate standing; 3133, Sociology 1113, or permission of instructor. A lecture-discussion sequence in which the student will be asked to consider a variety of sport topics and their role/relationship to life in American society. Topics such as racism, religion, politics, competition, and the role of interscholastic sport in society will be studied in a attempt to comprehend their impact on everyday experience. No student may earn credit for both 4243 and 5243.

G5253 Legal Issues in Sport Management. Prerequisite: graduate standing; 4283 or equivalent; or permission of instructor. Discussion of the legal environment, legal duties and responsibilities, risk management, discrimination, labor and professional sport governance, contracts, facility risks, and governmental immunity. (Sp)

G5263 Sport Marketing. Prerequisite: graduate standing or permission. Concentrates on marketing theories and practices in the sport industry. Specific topics include: the unique nature of sport marketing, sport consumers and their behavior, the sport product and its elements, sport marketing research, and sport marketing strategy. (Sp)

G5273 Financing Sport. Prerequisite: graduate standing or permission. Discussion and practical methods and techniques for funding sport programs. Specific topics include the financial challenge, resources from the public sector, resources from external sources, and financial resources accruing from the enterprise. (Irreg.)

G5430 Internship in Health and Sport Sciences. 4 to 8 hours. Prerequisite: successful completion of course requirements in area of study; student must complete a minimum of twenty-four course hours, including all core requirements, before enrolling in internship; internship hours will be in addition to normal course requirements (i.e., 30-32). May be taken on a semester or two-semester basis; maximum credit eight hours. Field experience in area of study. Student will participate in on-the-job experiences in a wide range of hosting agencies, businesses and institutions. (F, Sp, Su)

G5523 Health Promotion Strategies. Prerequisite: graduate standing and permission of instructor. Will provide students with a basic introduction to the principles of health promotion. Specific topics will include risk appraisal and risk reduction, behavior change theories, program planning and management, holistic health/wellness, and others. (F)

G5543 Stress Theory Research & Management Applications. Prerequisite: graduate standing. Help students gain awareness of stress and its effects, practices to reduce stress, and develop research skills and learn ways to implement stress management into their lives as well as into the lives of others (in schools, the community, worksites, etc.).

G5553 Health Promotion Evaluation. Prerequisite: graduate standing; 2913, 4923; or permission of instructor. Examination of the processes used to evaluate health promotion and health education programs. Includes: needs assessment, quality assurance evaluation, summative evaluation, data analysis, and cost benefit analysis strategies. (F, Sp)

G5563 Health Behavior I: Individual and Group Influences. Prerequisite: 3513, Psychology 1113 or permission of instructor. Focuses on behavioral theories and research which are pertinent to understanding factors/conditions that influence the development of and change processes related to health behavior in individuals or small groups such as family units. It is designed to provide a knowledge and theoretical base for integration of behavioral principles into research design and health promotion programming. (Sp)

G5823 Exercise Physiology (Crosslisted with Industrial Engineering, Physiology 5823). Prerequisite: Industrial Engineering 4823; Zoology 3104 or 3133; Physiology 5016 or 5019; or permission. Advanced study of physiological responses, regulatory mechanisms and adaptations of human performance and health, factors affecting performance and health, and training and evaluative techniques. (F)

G5833 Advanced Exercise Physiology Laboratory. Prerequisite: 5823 or permission. Laboratory experiments of a theoretical and applied nature emphasizing advanced concepts of physiological mechanisms, regulating responses and adaptation to exercise. Analytical and prescriptive methodologies pertaining to the energy, muscular and cardiorespiratory systems, including body composition techniques. Laboratory (Sp)

G5843 Biomechanics (Crosslisted with Industrial Engineering 5843). Prerequisite: 3843 or Industrial Engineering 4823 or permission. Review of muscle, bone and joint structure and function. Review of kinematic and kinetic principles as applied to human movement. Analysis of human movements using film, anthropometric, dynamometer, force platform, electromyographic and performance techniques. Application of human movement analysis to ergonomics, sport and rehabilitation. (Irreg.)

G5853 Health Fitness: Theory and Application. Prerequisite: 3513 or 4513 and Zoology 3133, or equivalent; graduate standing. A multidisciplinary study of health-fitness theories and their applications in preventive health. Emphasizes are threefold: first, to understand the underlying theoretical framework of epidemiological, biological and behavioral concepts; second, to develop skills to implement programs emphasizing physical fitness assessment and prescription; third, to critically examine the role of physical activity and fitness strategies in preventive and therapeutic health settings.

G5863 Physiology of Aging. Prerequisite: Physiology 2124, 3104 or Zoology 3133, or permission of instructor. Discuss the various theories of aging as well as the age expected changes in the various physiological systems (cardiovascular, respiratory, muscle, bone, nerve and body composition). In addition, exercise programming concerns for the aged as well as the possible benefits of exercise during aging will be discussed. (F)

G5873 Clinical Exercise Physiology (Crosslisted with Physiology 5873). Prerequisite: 5823 or PHYS 5006 or equivalent. Exercise is examined as an
important clinical evaluation and management method. Recent investigations and reviews in physiology and medicine are emphasized in study of the body's responses to exercise stress in the health-disease continuum. Primary focus is given to the mechanisms explaining pathophysiological processes that can be affected by exercise. (Sp)

G5883 Exercise Endocrinology. Prerequisite: 5823 or permission of instructor. In-depth examination of the role of the endocrine system in regulating acute and chronic metabolic responses to exercise. Special endocrine issues related to exercise physiology (i.e., diabetes) will be studied. (Irreg.)

G5940 Intensive Studies in Health and Sport Sciences. 1 to 6 hours. Prerequisite: graduate standing or permission. Completion of research project under faculty supervision. Meets research requirement for non-thesis option. (F, Sp, Su)

G5953 Scientific Investigations in Health and Sport Sciences. Prerequisite: graduate standing. Collection, analysis and interpretation of data. Critical evaluation of reported research related to human movement. (F)

G5960 Directed Readings in Health and Sport Sciences. 1 to 6 hours. Prerequisite: graduate standing, permission. Designed for graduate students to provide them with an opportunity to investigate selected problems in the field. Thirty hours library and research work for each credit hour. Consultations with instructor required. Written report. Required for all students in a nonthesis program. (F, Sp, Su)

G5963 Statistical Applications in Health and Exercise Science. Prerequisite: graduate standing or permission of instructor. The application of techniques used to organize, analyze, and interpret statistical data unique to health and exercise science. Topics include measures of central tendency, measures of variability, percentiles, sampling, correlation, regression, standard errors, and tests of significance through repeated measures ANOVA and including parametric, non-parametric tests. (Irreg.)

G5970 Seminar in Health and Sport Sciences. 2 to 6 hours. Prerequisite: graduate standing. May be repeated with change of subject matter; maximum credit six hours. Study of pertinent and current problems of research. Students may use seminars to identify and develop thesis projects. Required written paper and research. (Sp)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. Required of all students writing master's theses. Consultations with major professor required as thesis progresses. (F, Sp, Su)

G5990 Independent Studies in Health and Sport Sciences. 1 to 6 hours. Prerequisite: graduate standing or permission. A study of selected problems under guidance of instructor. At least twenty-five hours of library and research time required for each hour of credit carried. Final paper required. (F, Sp, Su)

G6523 Social Marketing in Health Promotion. Prerequisite: 5523 or permission of instructor. Focuses on the incorporation of basic marketing principles into strategies for behavioral and social change. Targeted outcomes include individual behaviors, group population norms, environmental supports and policies pertinent to health promotion and/or public health issues. (Su)

G6543 Physical Activity and Health. Prerequisite: graduate standing and permission of instructor. An examination of physical activity and exercise as they relate to health status and chronic disease prevention. Special emphasis will be placed on epidemiologic evidence of physical activity benefits across the lifespan in a variety of chronic disease states. (Irreg.)

G6563 Health Behavior II: Community, Organizational and Population Influences. Prerequisite: 5563 or permission of instructor. Focuses on behavioral theories and research which are pertinent to understanding macro influences on health behavior. It is designed to provide a knowledge and theoretical base for integration of behavioral principles in health promotion programming. Particular emphasis is placed on community, organizational, and population based intervention. (Sp)

G6573 Intervention Mapping. Prerequisite: 5563 and 6563, or permission of instructor. Course focuses on the process of developing health promotion programs using the steps of intervention mapping. Students are expected to have an understanding of needs assessment, the use of individual and community level behavior changing theories in the development of health promotion intervention, and program evaluation before taking the course.

G6824 Cardio-Respiratory Exercise Physiology. Prerequisite: 5823 or permission of instructor. Focus on basic physiology of the cardiovascular and respiratory (CVR) system, including a review of basic CVR exercise physiology. Build upon this basic knowledge with presentation of research findings of the CVR system emphasizing exercise responses, adaptations and regulatory mechanisms. Independently examine special topics, with opportunities for laboratory experiences, identified by the instructor and of particular interest in a seminar setting. (Irreg.)

G6834 Human Body Composition. Prerequisite: 5823 or permission of instructor. Technology used for assessment, factors such as gender, age and ethnicity effects on body composition measures. The relationship between body composition and disease and lab techniques. Laboratory (Irreg.)

G6844 Neuromuscular Physiology. Prerequisite: 5823 or permission of instructor. Basic micro-anatomy and physiology that will lend to an enhanced understanding of topics such as training, soreness, injury and disease. Provide lab based experience in assessment by computer techniques and ultra sonography. Laboratory (Irreg.)

G6853 Chronic Disease Assessment and Intervention. Prerequisite: graduate standing and permission of instructor. Provide basic understanding of selected chronic diseases including assessment, disease process, pharmacological and medical treatment and intervention strategies for reducing risk. (Irreg.)

G6884 Endocrinology and Metabolism of Exercise. Prerequisite: 5823 or permission of instructor. Provide in-depth examination of the energy metabolism during exercise and the role of endocrine system in regulating acute and chronic metabolic responses to exercise. Special endocrine issues related to physiology (i.e. diabetes) will be studied. Laboratory (Irreg.)

G6940 Independent Research in Health and Exercise Science. 1 to 3 hours. Prerequisite: master's degree and permission of instructor. May be repeated; maximum credit three hours. Supervised research for advanced graduate students on major projects with a faculty member. (F, Sp, Su)

G6943 Special Topics/Problems in Health and Exercise Science. Prerequisite: Graduate standing or permission of instructor. Special topics in health promotion and exercise science are considered in detail. Emphasis is placed on the intensive study of research literature in a designated specialty area in Health and Exercise Science. (Irreg.)

G6953 Measurement Issues in Health and Exercise Science. Prerequisite: 5823 or permission of instructor. Conceptual and measurement issues in health promotion and exercise science. Knowledge, attitude, and behavior assessment, principles of instrument construction, and assessment of physical activity, physical fitness and human performance. (Irreg.)

G6970 Seminar in Health and Exercise Science. 1 to 3 hours. Prerequisite: graduate standing and permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. Study of pertinent and current problems of research. Students may use seminars to identify and develop a program of dissertation research. (Irreg.)

G6980 Research for Doctor's Dissertation. 2 to 12 hours. (F, Sp, Su)

G6990 Independent Study in Health and Exercise Science. 1 to 3 hours. Prerequisite: master's degree and permission of instructor. May be repeated; maximum credit 12 hours. Supervised research for advanced graduate students on major projects with a faculty member. (F, Sp, Su)

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Hebrew (HEBR)

1115 Beginning Hebrew. An elementary course in understanding, speaking and writing Hebrew. (F, Sp) [I-FL]

1225 Beginning Hebrew (continued). Prerequisite: 1115. An elementary course in understanding, speaking and writing Hebrew. (F, Sp) [I-FL]

The prerequisite for 2000-level courses is 1225 or the equivalent.

2113 Intermediate Hebrew. Readings in Classical and post-Classical Hebrew with emphasis on independent and accurate translation. (F)

2213 Intermediate Hebrew. Readings in Classical and post-Classical Hebrew with emphasis on independent and accurate translation. (Sp)

3113 Advanced Hebrew. Prerequisite: 2113. May be repeated; maximum credit six hours. Advanced readings of Biblical works including poetry and prose. Psalms, Jonah, Ruth and famous narratives are included. Students translate passages of these works from Hebrew into English. (F, Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topics not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topics not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp)
History (HIST)

1113 History of Medieval Europe. History of Europe from its colonial origins to the end of the fifteenth century. Emphasis on the development of social structures and culture forms, and the sociocultural background of political and religious developments. (F, Sp)

1223 Europe, 1500 to 1815. An introductory survey of Europe in the early modern period. Topics include the Reformation, development of the absolute state, the Enlightenment, and the French Revolution and Napoleon. (F, Sp) [IV-WC]

1233 Europe Since 1815. An introductory survey of Europe from 1815 to the present. Examines the major political, economic, social and cultural trends in the major countries and European foreign affairs and overseas expansion. (F, Sp) [IV-WC]

1483 United States, 1492 to 1865. A general survey of United States history from its colonial origins to the end of the Civil War, with emphasis upon national political, diplomatic, economic, constitutional, social and intellectual developments. (F, Sp, Su) [IV-US]

1493 United States, 1865 to Present. A general survey of United States history from the Civil War to the present day; with emphasis upon national political, diplomatic, economic, constitutional, social and intellectual developments. (F, Sp, Su) [IV-US]

1543 Introduction to African American History. A history of African American people in North America and their role in shaping American history through the early 1970’s. Emphasis will be on how cultural values influenced African-American interactions and how cultures change over time. (F, Sp) [IV-NW]

1613 Western Civilization I. History and culture of western civilization from origins of Greek society to the end of religious wars in seventeenth century. (F) [IV-WC]

1623 Western Civilization II. History and culture of western civilization between 1660 and the present. Emphasis will be placed on western institutions and ideas, their evolution, and their influence elsewhere. (Sp) [IV-NW]

1723 East Asia to 1600. A general survey of the histories of China, Japan, Korea, and Vietnam to 1600. Focus on philosophical, cultural, social, and political developments in each of the four regions under consideration, as well as intra-Asian interactions. (Irreg.) [IV-NW]

1733 East Asia since 1600. A general survey of the histories of China, Japan, Korea, and Vietnam from 1600 to the present. Focus on the political, social, and economic systems of these countries; major historical events; intra-Asian interactions and East Asia’s response to the West. (Irreg.) [IV-NW]

1913 World Civilizations to 1600. Deals with the entire globe rather than with some one country or region; deals with all peoples, not just with Western or non-Western peoples. Focuses on historical forces or movements of worldwide influence. Comparative history. (Irreg.) [IV-WC]

1923 World Civilization 1600-Present. Deals with the entire globe rather than with one country or region; deals with all peoples, not just with so-called Western or non-Western peoples. Focuses on historical forces or movements of worldwide influence. Comparative history. (Irreg.) [IV-WC]

2013 Ancient Near Eastern Civilizations. A study of the major civilizations of the Ancient Near East from the first Pluvial period (ca. 8400 B.C.) through the first millennium B.C., with particular emphasis on the historic periods (ca. 3000 B.C. onwards). (Irreg.) [IV-NW]

2023 Greek and Roman Civilization. Covers the major political events of Greco-Roman history and civilization, but considerable attention will be devoted to Greek and Roman religion, historical writing, Roman law, engineering, and architecture; also Periclean Athens and Augustan Rome. Contributions of these civilizations to our own will be described. (Irreg.) [IV-WC]

2033 African-American History to 1865. traces the history of African-American people from their African background to the end of the American Civil War. The topics to be covered will include precolonial African social systems, the Atlantic slave trade, the evolution of slavery in the New World and the African-American community in the United States. (Irreg.) [IV-WC]

2043 African-American History Since 1865. traces the history of African-American people from the end of the Civil War to the contemporary period. The topics will include African-American family during and after Reconstruction; African-American role in organized labor before 1915; Booker T. Washington and the Home Economics Movement; Harlem Renaissance and the Civil Rights movement. (Irreg.) [IV-WC]

2333 The British Empire. A survey of the development of the British Empire and Commonwealth to the present day. Emphasis upon the period after the American Revolution; includes extension of control in Asia and Africa, movements of independence, the emergence of the Commonwealth and mid-twentieth-century challenges to the Commonwealth. (Irreg.) [IV-WC]

2613 Colonial Hispanic-American History, 1492 to 1810. The founding and development of the Spanish and Portuguese empires in America with special attention to the conquest of native civilizations and to the political, economic, social and intellectual institutions of the colonial period. (F, Su) [IV-WC]

2623 History of Hispanic-American Nations, 1810 to the Present. The emancipation and development of the Spanish-American nations (and of Brazil) with special attention to the movements for national independence, political unification, economic developments and social welfare. (Sp) [IV-WC]

2683 Introduction to Islam. Survey of the history of Islamic civilization in the Near East, North Africa, India and Malaysia from the advent of the Prophet to the modern period. (Irreg.) [IV-NW]

2713 Survey of African Civilization. Survey of the social, economic, political and cultural development of sub-Saharan African peoples from the emergence of human society to the present. (F) [IV-NW]

2803 Survey of Russia. An introduction to the history of Russia from its beginnings to the present day. Intended primarily for nonspecialists. (F) [IV-WC]

3000 Topics in Ancient History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected special problem or problems in ancient history. (Irreg.)

3003 History of Sparta. Traces the history of Sparta from its antecedents in the Hellenic Age through the Dorian Invasion to the Roman conquest. (Sp) [IV-WC]

3013 Archaic Greece. An examination of the history of ancient Greece from the earliest times to the fifth century, with emphasis upon Minoan Cretan, Mycenaean Greece, Homeric Greece and the Archaic era (c. 3000 to 500 B.C.). (F) [IV-WC]

3023 Classical Greece. An examination of the history of ancient Greece during its “classical” period, the fifth and fourth centuries B.C., with emphasis upon Athens, Sparta and Alexander the Great (c. 500-300 B.C.). (Irreg.) [IV-WC]

3033 Alexander the Great. Prerequisite: junior standing. Examines the Macedonian and 4th Century Greek background of Alexander, the career of Alexander, and the legacy of Alexander (the Hellenistic world). Topics include the breakdown of Greek unity, Alexander’s conquests and military genius, his sudden death and the resulting wars of succession, the culture of the Hellenistic period. (Alt. F) [IV-WC]

3053 Medieval Italy. Prerequisite: 1113 or 1613 or junior standing. A survey of Italy from circa 400-1350 CE, emphasizing the mix of Roman, Christian, and barbarian traditions, relations between the church and empire, and the role of cities and commerce. (Sp) [IV-WC]

3060 Topics in Medieval History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected special problem or problems in medieval history. (F, Sp)

3063 The Ancient Art of War. Traces the history of warfare from its origins through the ancient world to the beginning of the Middle Ages. (Sp) [IV-WC]

3073 Women in Early Modern Europe. Prerequisite: junior standing. Examines the experiences of women in Europe from c. 1350 to c. 1580. Examines ideas about women, life cycle, economic activity, education, exercise of power, and religion, noting the enhanced position of women from c. 1350, following the Black Plague, and the decline in that position which began c. 1500. (Irreg.) [IV-WC]

3083 The American Colonies. A history of the British colonies in North America from the earliest discoveries and of the United States from the Second Continental Congress to the inauguration of Washington in 1789. (Irreg.) [IV-WC]

3093 The United States: Revolution and New Nation to 1815. The American Revolution and the development of political institutions under the Articles of Confederation and the Constitution, innovations of the Federalists, domestic and foreign affairs. (Irreg.) [IV-WC]

3103 Slavery in World History. Prerequisite: junior standing. Examines slavery and unfree labor from the earliest times in Mesopotamia to the present and includes an analysis of slavery in the American South and Latin America. Also traces the history of the Abolition Movement. (Irreg.) [IV-NW]

3113 The Crusades. Prerequisite: 1113 or 1613 or junior standing. Covers crusades to the Holy Land and Europe against Moors, pagans, heretics, and enemies of the Pope. Topics include crusade ideology, relations between Latin, Islamic, and Muslim crusaders, states, techniques of warfare, and the experience of crusading. (F) [IV-WC]

3120 Topics in Modern European History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected special problem or problems in modern European history. (Irreg.)

3123 War in European History. Prerequisite: 1223 or 1233. A study of the impact of war on European history and the interaction of armies and society in the period from the fourteenth century to the present. (Irreg.)

Course Descriptions
3133 Medieval Women. Prerequisite: 1113 or 1613 or junior standing. Covers social history of women in western Europe from late Antiquity to the late Middle Ages. Topics include stages of life, marriage, families, occupation, law, power, health, religion, love, and education. (F) [IV-WC]

3143 The Era of the Reformation. An analysis of the forces leading to the religious upheaval in the sixteenth century and the spread of Protestantism in Northern European countries; the Catholic Reformation or Reaction; Thirty Years War; and the relation of the Reformation Era to medieval and modern civilization. (F) [IV-WC]

3153 The Great War, 1914–1918. Prerequisite: 1233 or 1623. Examines the causes, conduct, and consequences of World War I, with primary emphasis on its cultural impact. (F) [IV-WC]

3163 Europe from the French Revolution to Napoleon. A social, political, military and cultural treatment of Europe from 1789 to 1815. Appropriate attention will also be given to causes of the French Revolution. (Sp) [IV-WC]

3173 The Emergence of Modern European Society, 1815 to 1870. Main emphasis is upon reaction, liberalism and nationalism in Europe from the Congress of Vienna to the fall of the Second Empire. Social, political, military and cultural trends are examined. (Irreg.) [IV-WC]

3183 Europe in the Age of Imperialism, 1870 to 1914. Political, social and military history of Europe with particular attention to World War I and its origins. (Irreg.) [IV-WC]

3193 Europe in the Twentieth Century. Major topics include World War I and the postwar settlements; the breakdown of democracy and the rise of totalitarian states; origins and course of World War II; and postwar Europe and the Cold War. (F) [IV-WC]

3203 European Diplomacy Since 1815. A study of diplomatic relations among the European powers from the Congress of Vienna to the present. (Irreg.) [IV-WC]

3213 Intellectual History of Nineteenth-Century Europe. Examination of the impact on European social and political development of concepts such as Nationalism, Socialism and Darwinism. (Irreg.) [IV-WC]

3223 Intellectual History of Twentieth-Century Europe. A general survey of the major intellectual developments in Western Europe since 1900, including the areas of social thought, religious thought, political philosophy, scientific thought, literature and drama. In each area the relationship of intellectual expression will be related to the historical context from which it emerged. (Irreg.) [IV-WC]

3233 Modern Spain. Prerequisite: junior standing. Examines the political, economic, social, and cultural aspects of modern Spanish history (1808-present) and will attempt to place Spain within the context of European history, where it has often been ignored by European historians. (F, Su) [IV-WC]

3243 European Women and Gender Relations—18th Century to Present. Prerequisite: 1233 or 1623. Explores the social, cultural, political, and economic history of European women and gender relations from the Scientific Revolution to the present. (Irreg.) [IV-WC]

3253 Hitler and Nazi Germany. Prerequisite: 1233. Focuses on the man, the part, and the regime. Hitler's personality and ideological beliefs, the party's growth and membership, and the regime's structure and policies are investigated. The topics are discussed within the context of German history and political, social, and economic developments in 20th century Europe. (Irreg.) [IV-WC]

3263 Germany 1800-1923: The Long Nineteenth Century. Prerequisite: junior standing. This course surveys modern Germany's passage from pre-industrial feudalism at the beginning of the modern period, through national unification under an authoritarian empire, to its first unsuccessful democratic experiment in the aftermath of war and defeat in the 1920's. (Irreg.) [IV-WC]

3273 History of Ireland, Part I. Examines the early history of Ireland from the third century to 1600. Looks at early tribal culture, the advent of Christianity and its effect, the struggle for national unification, and relations with England. (Sp) [IV-WC]

3283 History of Ireland, Part II. Examines the history of Ireland from 1600 to the present day. Looks at the British conquest of Ireland, subsequent Anglo-Irish relations, events leading to Irish independence, and the origins and causes of present day sectarian violence. (Sp-alternate) [IV-WC]

3290 Topics in British History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected problem or problems in British history. (Irreg.)

3293 Antisemitism. Prerequisite: junior standing. Covers the history of antisemitism, the world's oldest prejudice, from the Middle Ages to the present, with emphasis on the 19th and 20th centuries. Topics include antisemitism's religious and social roots, the Inquisition, the Holocaust, antisemitism of the right and left, and ethnic, black, and " genteel" antisemitism. (Irreg.) [IV-WC]

3303 Women in North Africa. Prerequisite: junior standing. Survey aspects of the lives of traditional and modern women in North Africa from the turn of the 20th century to the present. The course will look at Muslim (Arab and Berber) and Jewish women in both rural and urban settings in the pre-colonial, colonial, and post-colonial periods. In addition to lectures and readings, the class will be augmented with documentaries and art films. (F) [IV-NW]

3313 Israeli Culture through Film. Prerequisite: junior standing or permission of department. Introduces students to the Israeli culture in its modern day context of the young Jewish state. Focuses on the dynamic mosaic of this multi-faceted society which is still evolving. (Sp) [IV-NW]

3323 Tudor England. A study of England from 1485 to 1603. Topics covered include the establishment of the Tudor dynasty, Tudor administrative and political development, the English Reformation, foreign and colonial relations, economic growth, and sixteenth-century social and cultural life. (F) [IV-WC]

3333 Stuart England. A study of England from the accession of James I in 1603 to the death of Queen Anne in 1714. Topics covered include economic change and growth, colonial development, the Puritan revolution, constitutional and religious controversies following the Restoration, and social and intellectual developments. (Sp) [IV-WC]


3353 England Since 1832. Topical analysis of major developments in British life since 1832, including growth of political democracy, adaptation to industrialism, social and cultural change, foreign affairs, imperialism, growth of the welfare state. Britain's changed role in the twentieth century. (Irreg.) [IV-WC]

3363 Legal and Constitutional History of England I. The first part of a course of lectures on the development of the English constitution, and of legal concepts, institutions and procedures from the Anglo-Saxons to the present. (Irreg.) [IV-WC]

3373 Legal and Constitutional History of England II. Prerequisite: junior standing. The second of a two-part course on the development of the English constitution and of legal concepts, institutions and procedures from the Anglo-Saxons to the 20th century. It covers the period 1485-1911. (Irreg.) [IV-WC]

3383 The American West. A survey of the economic, political, social and cultural development of the American West. Particular attention will be paid to the American frontier as a frontier process and as a causative factor in historical change. (F) [IV-WC]

3393 History of Oklahoma. Meets the requirement in Oklahoma history for teacher's certificate. A survey of Oklahoma history from its beginning to the present, including its Indian background, formation into territories, achievement of statehood, and general cultural, economic and political development. (F, Sp, Su)

3413 The History of Ancient Israel. Prerequisite: junior standing. A topical survey from 1400 B.C. to 425 A.D., dealing critically with the main institutions and their historical background from early tribal theocracy to the end of the Rabbinic Patriarchate under Rome. (Sp) [IV-WC]

3423 War, Prosperity and Depression. Prerequisite: 1493 or equivalent. American involvement in World War I, and the impact of war on American society; the postwar decade, innovations of a New Era, and the crisis of American individualism; Franklin D. Roosevelt, the New Deal, and tensions in Depression America. (IV-WC)

3430 Topics in United States History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected problem or problems in United States history. (F, Sp, Su)

3433 The United States in the Cold War Era. Prerequisite: 1493 or the equivalent. Examines changes taking place in American life during the second half of the twentieth century. Topics include the Cold War, McCarthyism, the New Frontier, Civil Rights Movement, protest in the 60s, the Vietnam War, and adaptations to a global economy. (IV-WC)

3443 American Frontier to 1828. Prerequisite: 1483. An analysis of frontier development in the region east of the Mississippi with special emphasis on a comparative view of world frontiers. (F) [IV-WC]

3453 The American Frontier Since 1828. An analysis of frontier development in the trans-Mississippi West with special emphasis on a comparative view of world frontiers. (Sp) [IV-WC]

3463 The Life of the Mind in America: to 1815. Main currents in American thought during the nation's first two centuries. How a uniquely American culture developed in response to a unique environment. Special topics: European intellectual background, early religious thought, the Enlightenment, Revolutionary ideology, racial thought, nationalism and the philosophic foundations of the new experiment in government. (Irreg.) [IV-WC]
3473 Life of the Mind in America: 1815 to 1877. Main currents in American thought during the nineteenth century. How American culture weathered the tests of expansion, sectionalism, Civil War and economic growth. Special topics: the ideology of American democracy, Romanticism and Transcendentalism, religion, reform, the debate over slavery, the impact of war and the intellectual defense of American capitalism. (Irreg.) [IV-WC]

3483 The Life of the Mind in America: Since 1877. Main currents in American thought in this century. How American culture responded to industrialization, urbanism, technology, world war, depression and affluence, and foreign entanglement. Special topics: liberalism, conservatism, radicalism and the debate over economic justice; literature, philosophy and art; the role of the intellectuals and their attempts to discover meaning in a complex world. (Irreg.) [IV-WC]

3493 American Environmental History. Examine American attitudes toward the environment since the founding of American colonies, evolution of natural resource policies, and lives of prominent figures in the "conservation" and "ecology" movements of the late nineteenth and twentieth centuries. (F) [IV-WC]

3500 Special Topics in History. Prerequisite: junior standing. May be repeated with change of content; maximum credit six hours. Covers topics not covered in current course listings or specific geographic area topics courses. (F, Sp)

3503 World War II. Prerequisite: junior or senior standing. Treats origins, conduct and outcome of World War II in global setting. Emphasis on roles of national interest, policy making, relations of states, and effects of war on societies involved. (F) [IV-WC]

3513 American Constitutional History to 1900. Prerequisite: 1483 or 1493. A study of the United States Constitution in its historical (social, economic, political, religious) context to 1900. (F) [IV-WC]

3523 American Constitutional History, 1900-Present. Prerequisite: 1483 or 1493. A study of the U.S. Constitution in its historical (social, economic, political, religious) context since 1900. [IV-WC]

3533 The History of Early American Women. Explores the history of American women from the seventeenth century to the mid-nineteenth century by focusing on women's lives from a wide variety of perspectives including demographic change, sexuality, work patterns, and political involvement. (F) [IV-WC]

3543 The History of Modern American Women. Explores the history of American women from the mid-nineteenth century to the present by focusing on women's lives from a wide variety of perspectives including demographic change, family life, sexuality, work patterns, and political involvement. (Sp) [IV-WC]

3553 The Civil War. A course of lectures on the social, economic, political, intellectual and military aspects of the years 1861 to 1865. (Irreg.) [IV-WC]

3563 United States Diplomatic History (Crosslisted with Political Science 3563). A survey of American diplomatic history from the War for Independence to the present, emphasizing relations with major European, Latin American and Far Eastern countries. [IV-WC]

3583 History of Sport in America. Examines the role of sport in American society, and uses sport as a device to explore social, historical and political topics like the commercialization of leisure, changing conceptions of masculinity, violence, racism, labor relations, gender relations, and working-class culture. (Irreg.)

3593 Women in the American West. Prerequisite: 1483 or 1493. Nineteenth-century gender ideologies, multi-cultural interaction and exchange, work roles and community building, participation in politics, and reform movements of women in Trans-Mississippi West. (Irreg.) [IV-WC]

3603 Germany 1918-1990: The Short Twentieth Century. Prerequisite: junior standing. Surveys Germany’s experience from the period before the first world war into the 1990's. Students will explore the violent stresses challenging Europe’s most dynamic industrial society, and the spiral into dictatorship, war and genocide after the failure of a fragile democracy in the first half of the century. The course tracks the subsequent challenges facing divided successor states of east and west between 1945 and the reunification of the 1990's. (Irreg.)

3623 Conformity and Dissent in the 1950s and 1960s. Examines conformity and dissent in the 1950s and 1960s. Topics include the consumer culture, suburbia, the impact of television, "McCarthyism", the Beats and the 1960s counterculture, student protest, civil rights and black nationalism, and women's liberation. (Irreg.) [IV-WC]

3633 American Indian Ethnology to 1870. Prerequisite: junior standing. Examines the ways in which native societies in North America responded to European invasions between 1492 and 1890. Emphasis will be placed on Indian culture, the way in which it changed, and the various governmental attempts to destroy it. (F) [IV-NW]

3643 American Indian: 1870–Present. Prerequisite: junior standing. Examines American Indian history since the 19th century reservation era. Major themes include life patterns, cultural survival patterns, pan-Indian movements, the Indian Reorganization Act, relocation and termination policies, and self-determination issues. (Sp) [IV-WC]

3653 The Media and Social Change in 20th Century United States. Prerequisite: 1483 or 1493. A history of the interaction between the American people and the six most important ways of receiving information about their world during the 19th and 20th centuries. These include mass market newspapers (also known as the “penny press”), modern advertising, motion pictures, comic books, radio, and television. This is not an introduction to journalism or communications theory, nor a course in film history. (Irreg.) [IV-WC]

3663 Political Islam. Prerequisite: junior standing. The study of radical Islamic thinkers, political parties, and governments in the modern Middle East. (Irreg.)


3690 Topics in Latin American History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected special problem or problems in the history of Latin America. (F)

3693 Political/Socioeconomic History of South Africa. Prerequisite: 2713. Traces the political and socioeconomic experience of South Africans from 1652 to the present. Emphasizes political and social transformation of South Africa from racial segregation to Apartheid. Also examines the post-Apartheid changes in contemporary South Africa. (Irreg.) [IV-NW]

3703 Native Peoples of Latin America. Explores the history of Latin America's indigenous peasantry and the issue of ethnicity in the modern world. Focus is on the people of Mexico, Guatemala, Peru and Brazil. (Irreg.) [IV-NW]

3713 History of Mexico, 1800-present. Explores the history of Mexico from independence to the present. Particular attention is paid to the issues of statebuilding, dependency, revolution, and post-revolutionary change. (Irreg.) [IV-WC]

3723 Africa Since 1945. Prerequisite: junior standing. The course thematically and chronologically examines social, political, cultural and economic developments in Africa from the end of World War II to the contemporary period. The growth of millenarian religious movements, nationalism, decolonization, and the post-colonial nation states are among the topics examined. (F) [IV-NW]

3740 Topics in African History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected special problem or problems in African history. (Sp, Su)

3743 Southern Africa Since 1800. Focuses on the socio-economic and political evolution of Southern Africa as a distinctive region from 1800 to the contemporary period. The preponderant role of South Africa in the development of the region will be emphasized, while Zimbabwe, Mozambique and Angola will also be closely studied. (Sp) [IV-NW]

3753 Cultural Revolutions of the 1960’s. Prerequisite: junior standing. Examines the rapid political, economic and cultural changes of the 1960’s as a world-wide phenomenon. (Irreg.)

3763 Eastern Europe since 1938. Prerequisite: 1233 or 1623. Studies the impact on eastern Europe of World War II, Nazi and Soviet occupation, Stalinism, communist reform efforts, the collapse of communist rule, and subsequent transformations. (Sp) [IV-WC]

3770 Topics in Russian and East European History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected special problem or problems in Russian or Eastern European history. (Sp)


3783 Africa Since 1800. Thematically traces the evolution of Africa during the colonial period and explains how the continent moved to independence in the second half of the twentieth century. Such topics as the development of formal colonies and protectorates, the missionary factor and African nationalism will be studied. (F) [IV-NW]

3793 Imperial Russia. A study of the origins and growth of the Russian Empire, origins and development of autocracy and serfdom, Russia’s emergence as a great power, its reforms and revolutions. (Sp, Su) [IV-WC]

3803 The Era of the Russian Revolutions. Deals specifically with the conditions and events of change in Russia between 1905 and 1921. Seeks to take into account the broad questions of industrialization and backwardness, the popular responses to these matters and the rise of radical groups. Beyond this setting, major attention will be placed on the dissolution of the old regime...
3813 The Soviet Union: Development and Problems. Detailed study of political, social, cultural and economic developments in the Soviet Union in world affairs. (F) [IV-WC]

3823 History of Japanese Culture. Prerequisite: junior standing. Surveys the development of Japanese civilization from the earliest times to the present through art, architecture, literature, religion, and political ideas. (Irreg.) [I-VNW]

3833 Nation Building in East Central Europe, 1790 to 1939. A comparative study of the social and political processes of nation building among the Polish, Czech, Slovak, Magyar, and Yugoslav peoples; the attempts of the Habsburg and Tsarist empires to deal with national diversity; the emergence of independent nation-states; and the problems of domestic and international instability between the two world wars. (Irreg.) [I-RWC]

3840 Topics in Asian History. 1 to 5 hours. May be repeated for credit with change of content. Discussion of a selected special problem or problems in Asian history. (Sp, Su)

3843 International Relations in the Middle East. Prerequisite: junior standing or permission of instructor. Covers the major wars of the region beginning with the first world war, when the modern state system was created, and ending with the Gulf War, when the U.S. hoped to construct a new world order. The Arab-Israeli conflict, the Cold War, the contest for control of the Persian Gulf and oil markets are also covered. Discussed will be the role of the great powers as well as the major Middle Eastern states in shaping international relations in the region over the past century. (Irreg.)

3853 Japan to 1850. Prerequisite: 1723 or 1733 or junior standing. Traces the history of Japan beginning with the earliest Jomon and Yayoi cultures and ending with the unraveling of the last feudal regime in the nineteenth century. (Irreg.) [I-VNW]

3863 Japan Since 1850. Prerequisite: 1723 or 1733 or junior standing. Designed to introduce students to the history of Japan from the 1850's to the present. Will include the Meiji restoration, industrial development, imperial expansion, wartime mobilization, the U.S. occupation, economic recovery and high growth, and the changing political and popular culture of the 1980s and 1990s. (Irreg.) [I-VNW]

3873 Traditional China. Survey of Chinese history to 1700. Roots of longevity of Chinese civilization; salient features of traditional Chinese society; evolution of the bureaucratic state; philosophy and religion; literature and the arts; elite and popular culture; major historiographical debates on the nature of Chinese society; significance of China in East Asian and world history. (Alt. F) [I-VNW]

3883 Modern China to 1945. Manchu conquest of China; founding of the Ch'ing dynasty; High-Ch'ing culture; foreign imperialism; internal disintegration; reforms and revolution; warlord politics; Nanking decade; New Culture Movement; rise of Chinese Communism; Sino-Japanese War. (Alt. Sp) [I-VNW]

3893 Culture and Society in the Middle East. Prerequisite: junior standing or permission of instructor. Covers the major social and cultural conflicts which have defined the peoples and states of the modern Middle East from 1800 to the present. The course will be on Turkey, Iran, Egypt and Israel. History texts, primary documents, and novels will be read. Particular attention will be paid to the debates over the place of women and religion. (Irreg.)

3903 Contemporary Japan. Prerequisite: 1733 or 3863. Explores the unique politico-economic system that developed in Japan following the Pacific War. While emphasizing the characteristics of this system, students also learn about the people living in it, how they adapt, how some do not, and the challenges facing Japan today. (Irreg.) [I-VNW]

3913 The Samurai in Japanese History. Prerequisite: 1723 or 1733 or 3853. Explores the history of the most popular figure in Japanese history. Covers warfare and invasion before the formation of the early state up to the suicide of the last Samurai in 1970. (Irreg.) [I-VNW]

3923 Contemporary China. Survey of Chinese history since 1949. Founding of the People's Republic of China; Great Leap Forward; communization; Hundred Flowers Campaign; Cultural Revolution; China after Mao; Taiwan; Sino-American relations; China and the Third World. (Alt. F) [I-VNW]

3933 History of the Great Witch-Hunt in Early Modern Europe and America (Crosslisted with Women's Studies 3933). Prerequisite: junior standing. Covers an important era in the history of human rights and misogyny while offering a view of early modern Europe through social, legal, political, and religious lenses. (Irreg.) [I-VWC]

3943 European Fascism. A comparative analysis of the ideology, popular appeal, and success or failure of fascist movements in modern Italy, Germany, and other West and East European countries. (Alt. F) [I-VWC]

3950 Topics in Middle Eastern History. 1 to 3 hours. Prerequisite: junior standing. May be repeated with change of content; maximum credit nine hours. Discussion of a selected problem or problems in Middle Eastern history. (Irreg.)

3953 The Modern Middle East. Explores the political and social history of the modern countries of Egypt, Iraq, Israel, Jordan, Lebanon, Saudi Arabia, Syria and Turkey and areas affected by them from 1500 to the present. (F) [I-VNW]

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program and permission. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3963 Rebirth of Israel. Prerequisite: junior standing. Examines the historical evolution of the Zionist movement in the second half of the 19th century through the establishment of the State of Israel in the mid-20th century within the framework of Jewish modernization, antisemitism, and conflicting modern nationalisms. (Irreg.) [I-VNW]

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (Sp, Su)

3973 Judaism—A Religious History. Prerequisite: junior standing. Introductory survey of Judaism from its earliest origins in the ancient Near East to the present. Development of ideas, forms of worship, and religious expression as well as sectarian trends and variations will be examined. (Irreg.) [I-VNW]

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

3983 Medieval Jewish History. Prerequisite: junior standing or permission of instructor. Survey of Jewish history from the fall of the Second Temple in 70 C.E. to the expulsion from Spain in 1492. Primary emphasis on the social and intellectual history of the Jewish communities of the Islamic world and of Latin Christendom and their relations with the two great medieval civilizations. (Irreg.) [I-VNW]

3993 The Evolution of Martyrdom in the Judeo-Christian Civilization. Prerequisite: junior standing. Traces the historical development of martyrdom in Judaism and Christianity to understand what motivated individuals and communities to give up their lives for their convictions. Compare the evolution of the idea of martyrdom in Judaism and Christianity to identify differences and similarities between these two faiths. (Irreg.) [I-VWC]

4973 Undergraduate Seminar in History. Prerequisite: History majors may enroll only after completing 75 credit hours of undergraduate coursework, 24 hours of which must be history. Non-majors may enroll with permission of instructor. May be repeated with change of content; maximum credit nine hours. Extensive research in historical sources and literature relating to a special topic or topic selected by the instructor. Emphasis will be on the individual preparation of research papers. (F, Sp, Su) [IV]

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topics not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

4950 Directed Readings in History. Prerequisite: graduate standing. Graduate-level independent study for master's candidates only. (Irreg.)

4954 Historical Methods—Bibliography and Criticism. Prerequisite: graduate standing or permission. The nature and philosophy of history; techniques of research and writing. (F)

G5110 Independent Studies in European History. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit fifteen hours. Independent study, arranged between the professor and student, in the history of Europe. (F, Sp, Su)

G5143 Government Publications (Crosslisted with Library and Information Studies 5143). Prerequisite: LIS 5013 or permission of instructor. Acquaints the student with the basic reference sources that provide access to the publications of governmental organizations. United States government publications are stressed. Topics include: the basic catalogs and indexes; depository system; acquisition, selection, organization, use of, and on-line retrieval of government publications. (Irreg.)

G5210 Independent Studies in American History. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of content, maximum credit fifteen hours. Independent study, arranged between the professor and student, in the history of America. (F, Sp, Su)
G5300 Directed Readings in Medieval History. 1 to 5 hours. Prerequisite: graduate standing, a reading knowledge of either French or German, and permission of instructor. May be repeated with change of content and permission; maximum credit twelve hours. A supervised program of readings in a selected special problem in medieval history. (F)

G5310 Independent Studies in Latin American History. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit fifteen hours. Independent study, arranged between the professor and student, in the history of Latin America. (F, Sp, Su)

G5320 Research in Medieval History. 1 to 5 hours. Prerequisite: graduate standing, reading knowledge of Latin, and permission of instructor. May be repeated with change of content; maximum credit twelve hours. A supervised program of research in the sources for medieval history, preparatory to research for the master’s thesis in medieval history. (F, Su)

G5410 Independent Studies in African History. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit fifteen hours. Independent study, arranged between the professor and student, in the history of Africa. (F, Sp, Su)

G5510 Independent Studies in Asian History. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit fifteen hours. Independent study, arranged between the professor and student, in the history of Asia. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G6050 Research Problems. 2 to 5 hours. Prerequisite: twelve hours of history and permission. May be repeated with change of content; maximum credit fifteen hours. An individual course of intensive research with the area and problem to be determined by the student and directing instructor. (F, Sp, Su)

G6160 Advanced Readings in European History. 1 to 4 hours. Prerequisite: permission of instructor; student must be at Ph.D. level. May be repeated with change of content; maximum credit fifteen hours. Independent study in the history of Europe; designed to give students the opportunity to do intensive readings in his/her major fields of study under direct guidance of his/her advisory committee. (F, Sp, Su)

G6200 Seminar in European History. 2 to 4 hours. Prerequisite: graduate standing with permission. May be repeated with change of content. Training in historical research, bibliography and historiography, featuring reports and criticism. (F, Sp)

G6230 Advanced Directed Readings in Medieval History. 1 to 5 hours. Prerequisite: master’s degree or equivalent in history, reading knowledge of French and German and permission of instructor. May be repeated with change of content and permission; maximum credit eighteen hours. A supervised program of readings on a selected special problem in medieval history. (F)

G6240 Advanced Research in Medieval History. 1 to 5 hours. Prerequisite: master’s degree in history, or its equivalent, reading knowledge of Latin, German and French, and permission of instructor. May be repeated with change of content; maximum credit eighteen hours. A supervised program of research in the sources of medieval history, preparatory to the research for the doctoral dissertation in medieval history. (F)

G6260 Advanced Readings in American History. 1 to 4 hours. Prerequisite: permission of instructor; student must be at Ph.D. level. May be repeated with change of content; maximum credit fifteen hours. Independent study in American history; designed to give students the opportunity to do intensive readings in his/her major fields of study under direct guidance of his/her advisory committee. (F, Sp)

G6300 Seminar in Latin American History. Prerequisite: graduate standing and permission. May be repeated with change of content; maximum credit nine hours. Training in historical research, bibliography and historiography. Features reports and criticism. (Irreg.)

G6360 Advanced Readings in Latin American History. 1 to 4 hours. Prerequisite: permission of instructor; student must be at Ph.D. level. May be repeated with change of content; maximum credit fifteen hours. Independent study in Latin American history; designed to give students the opportunity to do intensive readings in his/her major fields of study under direct guidance of his/her advisory committee. (F, Sp)

G6400 Seminar in American History. 1 to 4 hours. Prerequisite: graduate standing with permission. May be repeated with change of content. Training in historical research, bibliography and historiography. Features reports and criticism. (F, Sp)

G6460 Advanced Readings in African History. 1 to 4 hours. Prerequisite: permission of instructor; student must be at Ph.D. level. May be repeated with change of content; maximum credit fifteen hours. Independent study in African history; designed to give students the opportunity to do intensive readings in his/her major fields of study under direct guidance of his/her advisory committee. (F, Sp)

G6500 Africa Since 1945: Nationalism and the Postcolonial State. 1 to 4 hours. Prerequisite: graduate standing with permission. Training in historical research, bibliography, and historiography. Features reports and criticism. Emphasizes how nationalist movements contributed to the liberation of African countries from European colonialism. Also examines how the postcolonial state initially developed multi-party democracy but only for a brief period. (Irreg.)

G6560 Advanced Readings in Asian History. 1 to 4 hours. Prerequisite: permission of instructor; student must be at Ph.D. level. May be repeated with change of content; maximum credit fifteen hours. Independent study in Asian history; designed to give students the opportunity to do intensive readings in his/her major fields of study under direct guidance of his/her advisory committee. (F, Sp, Su)

G6600 Seminar in Middle Eastern History. 1 to 4 hours. Prerequisite: graduate standing with permission. Training in historical research, bibliography, and historiography. Features reports and criticism. (Irreg.)

G6800 The Rise of Modern Japan. 1 to 4 hours. Prerequisite: graduate standing with permission. Training in historical research, bibliography, and historiography. Features reports and criticism. Explores and analyzes Japan’s development from an agrarian state ruled by a peaceful warrior class to the economic superpower it is today. (Irreg.)

G6980 Research for Doctor’s Dissertation. 2 to 16 hours. (F, Sp, Su)

History of Science (HSCI)

The department offers courses which are slotted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slotted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slotted course syllabus.

1133 Science and Popular Culture. Draws on interdisciplinary perspectives to examine the interplay between science and popular culture from the Scientific Revolution to the present. Topics include representations of science, scientists, and nature in popular literature, television, films, and documentaries; the development of zoos and science museums; children and science; and science journalism. (Sp) [IV-WC]


2223 Lives in Science: History of Science Through Biography. Prerequisite: sophomore standing or permission of instructor. A biographical approach to the history of science. Accounts of selected scientific figures’ lives are studied from various periods and cultures. Special attention is given to critical analysis and interpretation of scientific biographies, and to differing traditions in biographical treatment of scientists. (Sp) [IV-WC]

2333 Inventing the Modern World. A survey of the history of technology since 1500. The course emphasizes historical contexts and cultural meanings, not technical details, as it explores the key steps in the construction of our modern technological world. Materials include literature and film as well as non-fiction. (F) [IV-WC]

1G3013 History of Science to the Age of Newton. Prerequisite: junior standing or permission. A survey of Western people’s efforts to understand the natural world, from earliest historical times to the seventeenth century. (F, Sp, Su) [IV-WC]

1G3023 The History of Science Since the Seventeenth Century. Prerequisite: junior standing or permission. A survey of the historical and intellectual development of modern science. (F, Sp, Su) [IV-WC]

3423 Modern Medicine – A Historical Introduction. Prerequisite: junior standing or permission of instructor. Examines the history of modern medicine in Europe and America. Aims to connect medical ideas and practices to the broader social and cultural contexts in which they were developed. (Irreg.) [IV-WC]

3433 Science, Technology, and Politics: International Perspectives. Prerequisite: junior standing, or permission of instructor. Focuses on interactions among professionals, the public, and the state, with cases drawn from different national contexts. Topics will vary, but can include such issues as AIDS; genetically-modified organisms; legal testimony; nuclear
power; global warming; weapons development; mass transit; cloning; and science and engineering education. (Irreg.) [IV-WC]

G533 Advanced Studies in the History of Modern Science. Prerequisite: 3023, or equivalent, or permission of instructor. May be repeated with change of content; maximum credit 12 hours. Thematic historical analyses of modern science and culture focusing on the European and American development and professionalization of scientific disciplines, interdisciplinary relationships among the sciences, and intersections between scientific and public culture. Includes examination of sources and critical assessment of scholarly interpretations. (Irreg.)

G550 Topics in the History of Science. 1 to 3 hours. Prerequisite: graduate standing and permission of instructor. May be repeated with change of content; maximum credit twelve hours. Topics of scholarly interest in the history of science.

G5960 Directed Readings in the History of Science. 1 to 4 hours. Prerequisite: graduate standing and permission of instructor. May be repeated with change of content; maximum credit six hours toward M.A. degree, twelve hours toward Ph.D. degree. Intensive readings in a selected area of the history of science, under the direction of a graduate faculty member.

G5970 Seminar: Research, Criticism and Analysis. 2 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit fifteen hours. Fundamentals of investigation and exposition in the history of science. (F, Sp)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Special Studies. 2 to 5 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit nine hours. Specialized studies in the history of science. Individual research culminating in the preparation of a research paper. (F, Sp, Su)

G6970 Seminar in the History of Science. 2 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit fifteen hours. Advanced study and historical criticism in specialized areas. (F, Sp)

G6980 Research for Doctor's Dissertation. 2 to 16 hours. (F, Sp, Su)

Honors Program (HON)

2970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors College Curriculum. May be repeated; maximum credit six hours. (F, Sp)

2973 Perspectives on the American Experience. Prerequisite: permission of Honors College. An interdisciplinary investigation of the social, economic, and political realities of American life and culture from the late nineteenth century to the present. Topics to be treated include immigration, the rise of mass production and consumer culture, the Great Migration, the Cold War, 1960s social movements, and current “culture wars.” (Sp) [IV-WC]

3213 American Politics and Culture in the Great Depression. Prerequisite: junior standing and permission of Honors College. Explores the complicated relationship between politics and culture in America during the 1930s, and era of enormous political and cultural ferment, through primary and secondary materials, including novels, short stories, journalism, movies, and works of history. (F)

3223 American Thought and Culture in the 1940s. Prerequisite: English 1213 and permission of Honors College. Study of America in the 1940s through an examination of American intellectual and cultural life. Among the themes discussed are wartime American culture, modern American liberalism and conservatism, the effects of McCarthyism, the changing place of women and minorities in American life, and anxieties about life in the atomic age. (Irreg.) [IV-WC]

3223 American Politics and Society Since 1945. Prerequisite: permission of Honors College. Examines the background of a number of important and controversial issues in American society since 1945, especially the problems of race, gender, and class conflict. (Irreg.) [IV-WC]

3315 Autobiography in America. Prerequisite: junior standing and permission of Honors College. An investigation of the canonical texts of American autobiography from 1682 to the present. Students will study the primary genres in American autobiography including spiritual autobiographies, captivity and slave narratives, immigrant autobiographies, and stories of the “self-made man,” as well as texts that subvert these models. Also examine current issues in contemporary literary scholarship on autobiography, including self-fashioning, problems of truth and authenticity, issues of collaboration and co-option and the dynamics of canon formation. (F) [IAAF]

3323 Introduction to American Women’s Writing. Prerequisite: junior standing and permission of Honors College. A study of women’s writing in America from the colonial period to the present day. Genres to be studied
include poetry, short stories, drama, and the essay. The course also provides a survey of feminist approaches to literary theory and criticism. (F) [IV-WC]

3413 U.S. Environmental History. Prerequisite: junior standing and permission of Honors College. Examines past interactions between humans and the natural world in what is now called the United States. Issues to be discussed include native American resource management, the ecological impact of Euro-American colonization, resource exploitation in the industrial era, the origins of preservation/conservation, and the roots of environmental problems/debates. (F) [IV-WC]

3513 Biotechnology. Prerequisite: Zoology 1114 or Microbiology 3813 or Botany 1114 and permission of Honors College. Survey of the most active areas in the field including recombinant DNA technology, protein engineering, large-scale cultivation of microorganisms, commercial exploitation of microorganisms, mammalian cells in culture and their application in vaccine production and monoclonal antibody production, gene therapy, and genetic engineering in plants. (F)

3613 Alcohol and Drugs in American Society. Prerequisite: permission of Honors College. An interdisciplinary study of the use and abuse of alcohol, illicit drugs, and licit pharmaceuticals in the United States from 1790 to present. Explores the changing perception of drug use and users within the contexts of immigration, the rise of industrial capitalism, urbanization, foreign policy priorities, and the evolution of the medical profession and drug industry. The course draws on historical, sociological, anthropological, and medical texts, as well as music and film. (Irreg.) [III-SS]

3713 Religion in America. Prerequisite: permission of Honors College. Traces the development, character and impact of religion in America from the pre-colonial era to the present. (Irreg.) [I-VW]

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor. The content will emphasize work not presented in other courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: member of Honors College Curriculum in good standing. An upper-division Honors College course to be used by departments and by the Honors College. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work on a special project under the guidance of a professor in the student’s field. (F, Sp, Su)

3993 Honors Colloquium. Prerequisite: admission to and good standing in Honors College Curriculum. May be repeated with change in course topic. An interdisciplinary course involving two or more instructors from different departments. (Sp)

4013 Social Change Process. Prerequisite: 3013 or permission of instructor. Utilizing interdisciplinary behavioral sciences literatures, students will gain knowledge of selected laws and community programs that characterize social change activities. Through case studies, guest lectures, and field trips, the students will acquire the skills needed to design and carry out a community project that may positively impact the lives of a target population. (Irreg.)

G4113 Practicum in Human Relations. Prerequisite: junior standing, two courses in social sciences and permission of instructor. May be repeated with change of content; maximum credit nine hours. Practica are designed for undergraduate and graduate students who wish to acquire experiences in human resources agencies. While directly participating in the helping process, students will learn about the function of professionals in different disciplines, the nature of agencies, their relation to one another and to the community. (F, Sp, Su)

G4503 Applied Research. Prerequisite: Communication 2513, Economics 2843, Political Science 3123, Psychology 2003, Social Work 2223, or Sociology 3123. Introduces students to the theoretical and methodological skills necessary to conduct an applied research program. Methodological approaches are varied and emphasize a range of social science orientations. (Irreg.)

4513 Service Learning. Prerequisite: 3003, 3013, 3043, and 4013. Capstone course to be taken in the final semester. Students apply learning from other courses to a project of significant community need. Classes are held both on campus and on-site, and group work, evaluative discussion, and written reflection of the course. (Irreg.) [III-SS]

G4900 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5003 Theoretical Foundations of Human Relations. Prerequisite: admission to the degree program in human relations or permission of department. An analysis of human relations theories and concepts from the perspectives of the social sciences, the humanities and education. (F)

G5013 Current Problems in Human Relations. Prerequisite: admission to the degree program in human relations or permission of department. In-depth studies of outstanding problems facing social practitioners, including racism, sexism, poverty and human rights. Strategies for change and ethics of intervention also will be discussed. (F)

G5023 Research in Human Relations. Prerequisite: admission to the degree program in human relations or permission of department. Special focus will be upon designing and implementing a research project related to the student’s area of concentration in human relations. (Sp)

G5033 Seminar in Leadership in Organizations. Prerequisite: graduate standing or permission of instructor. Focus is upon a survey of major leadership approaches and theories and application in organizational settings. Discussions of the leadership process and administration of assessment instruments are used to increase a student’s awareness of his/her own leadership style. (F)

G5043 Seminar in Organizational Change and Development. Prerequisite: graduate standing or permission of instructor. Focus will be upon the change process and a survey of major approaches used to bring about organizational change, such as confrontation meetings, survey feedback, job enrichment, process consultations, and third party intervention. (Sp)

G5053 Racial Diversity. Prerequisite: graduate standing or permission of instructor. Focuses on the changing demographics of our society, especially related to race and culture, gender, age, disability, and socio-economic status, emphasizing the implications of these factors for effective management. (F)

G5063 Seminar in Strategies of Social Change. Prerequisite: graduate standing or permission of department. A study of techniques for bringing about individual, group or organizational changes. Special focus will be placed on philosophies and results of violent and nonviolent tactics. (F)

G5073 Creative Problem Solving. Surveys the nature of creative thinking and creative problem solving. Topics to be covered include creative thinking challenges, creativity, readiness, major stages of the creative problem-solving process (fact finding, problem finding, idea finding, solution finding and acceptance finding) and use of a variety of individual and group techniques for different stages in the process. (Sp)

G5083 Seminar in Group Dynamics. Prerequisite: graduate standing or permission of department and graduate dean. An intensive study and critical evaluation of social-psychological concepts related to sensitivity training as a human relations technique. (CE)

G5093 Introduction to Graduate Studies in Human Relations. Prerequisite: admission to degree program in human relations or permission of instructor. Designed to acquaint graduate students with human relations theory and practice in various contexts. Emphasis is placed on the role of human relations
professionals as agents of persistence and change at the interpersonal, group, organizational and societal levels of analysis. (F)

G5100 Advanced Theories in Human Relations. 1 to 3 hours. Prerequisite: graduate standing or permission of instructor. May be repeated with change of content; maximum credit six hours. Additional in-depth studies of human relations theories and their implications for human relations practitioners will focus on topics such as, but not limited to: affirmative action and reverse discrimination; spiritual aspects of recovery in chemical dependency; conceptual models of violence and nonviolence as a basis for peace curriculum; human relations in the twenty-first century; human values in sexuality; and women and men in organizations. (F, Sp)

G5110 Advanced Seminar in Current Problems. 1 to 3 hours. Prerequisite: graduate standing or permission of instructor. May be repeated with change of content; maximum credit six hours. Additional in-depth studies of current social problems and strategies for intervention and change on topics such as, but not limited to: chemical dependency and society; ethnic and gender discrimination issues; disadvantaged children; domestic violence; sexual/physical abuse; physically and emotionally handicapped populations. (F, Sp)

G5113 Seminar in Local Issues in Human Relations. Prerequisite: graduate standing or permission of instructor. May be repeated with change of topic; maximum credit nine hours. Variable topics and content related to human relations problems and solutions. (F, Sp, Su)

G5123 Issues in Adult and Higher Education (Crosslisted with EDAH 5123). Prerequisite: graduate standing. Provides students with an understanding of various forces which influence the process of decision-making in adult and higher education, as well as provide an opportunity to examine how such decisions can be reached and implemented. The student will examine realistic examples of decision-making in such areas as budgeting, trustee relations, tenure decisions, faculty development, and curriculum. (F, Sp)

G5133 Human Emotions. Prerequisite: graduate standing, permission of instructor. Goal is to become familiar with some of the major conceptualizations of emotions and the evidence used to validate them; to examine a number of emotions such as: attachment, love, loss and grief, depression, anxiety, joy, anger, fear, etc. Will be both didactic and experiential. (F, Sp)

G5135 Seminar in Nonverbal Behavior in Human Relations. Prerequisite: graduate standing or permission of instructor. Topics include research methods, cross-cultural studies, proxemics, kinesics, vocicals, emotions, touch and human development, dress and appearance, attractiveness and social order. (F or Sp)

G5137 Seminar in Applied Interpersonal Dynamics. Prerequisite: 5083 or 5173. Prerequisite: graduate standing or permission of instructor. A human relations learning laboratory in which students can improve their self-awareness, communication skills and conceptual framework of reference. Topics include: self-disclosure, human emotion, concreteness, listening skills, genuineness, confrontation and immediacy. (Irreg.)

G5138 Seminar in Issues in Human Relations Training. Prerequisite: 5083 or 5173. Focuses on theory and research in group dynamics (group development, membership, goals, conformity, power, leadership, essentials in laboratory design); ethics, values and professionalism in human relations; and criticisms of human relations training. (CE)

G5193 Intervention and Practice in Training. Prerequisite: 3013, 5003, 5013, 5023, 5083 or 5173. Specifically designed to enable advanced students to explore their skills in working with others from both a theoretical and pragmatic perspective. Students are required, through course content, to develop a clear picture of facilitation, leadership, consultant or teacher style. (Sp)

G5200 Internship in Human Relations. 1 to 6 hours. Prerequisite: admission to the degree program in human relations and permission of department. Field experience in and outside Oklahoma. Each student must have both types of experiences. Agency roles and responsibilities will be learned by on-the-job practice. (F)

G5273 Athletics in Higher Education (Crosslisted with EDAH 5273). Prerequisite: graduate standing. Provide students with an understanding of the history, structure and administration of intercollegiate athletics, as well as an opportunity to discuss a wide variety of related contemporary issues. (Irreg.)

G5233 Organizational Behavior in Human Relations. Prerequisite: graduate standing. Organizational behavior (OB) represents the behavioral approach to management. OB is concerned with human behavior at work and how various structural and work processes influence such behavior. This course will address a number of important organizational issues and processes, including organizational culture, group behavior and teamwork, and leadership. (Su)

G5333 Mediation. Prerequisite: graduate standing. Studies how the acceptable third party assists parties in resolving disputes. There will be considerable attention paid to the mediation process and the activities of mediators. Also focuses on negotiations because mediators help parties complete negotiations they are unable to settle on their own. (F)

G5403 Psycho-Social Development. Prerequisite: graduate standing or permission of instructor. Concerned with psycho-social development. Discussion of the expanding social realm of the developing individual. Theories and research in a variety of areas related to social development will include: attachment, aggression, sex typing, moral development, and parent-child interaction. (F, Sp)

G5413 Chemical Dependency. Prerequisite: graduate standing or permission of instructor. Explores how chemical dependency affects individuals in their physical, psychological and social functioning. The dynamics of the illness, treatment and recovery process are explored. Attention is given to the feelings, physical, psychological and social aspects of chemical dependency. Both didactic and experiential. (F)

G5423 Family Systems and Family Reconstruction. Prerequisite: permission of instructor. Teaches students how to impact family systems. Through didactic and experiential learning, students will learn how students function in systems and explore their own rules for living in systems. (CE)

G5433 Group Counseling in Human Relations. Prerequisite: graduate standing or permission of instructor. Examines a variety of group counseling models, types of groups (process, solution-focused, action-oriented), the role of the group counselor, group members, and techniques and strategies for facilitating group work. (Irreg.)

G5443 Adolescent Issues in Human Relations. Prerequisite: graduate standing or permission of instructor. Designed to acquaint human relations professionals with issues facing teens today. The pressures confronting youth along with various adaptive and maladaptive coping behaviors will be studied. (F, Sp, Su)

G5453 Ethical Issues in H R Counseling. Prerequisite: graduate standing or permission of instructor. Surveys ethical, legal, and professional issues facing human services workers. (F, Sp, Su)

G5463 Counseling Skills in Human Relations. Prerequisite: graduate standing or permission of instructor. Introduces students to the helping professions and provide them with a basic mastery of important counseling skills in human relations. (Irreg.)

G5473 Women and Mental Health. Prerequisite: graduate standing or permission of instructor. Examines psychological theory and practice as it pertains to women. This course will look at traditional theories and practice, new approaches to working with women, and topical issues. (Irreg.)

G5483 Diagnosis in Human Relations Counseling. Prerequisite: graduate standing or permission of instructor. Introduces students to the diagnostic systems of mental disorders outlined by the American Psychiatric Association and the World Health Organization. Also covers principles and techniques of interviewing which produce a correct diagnosis. (F, Sp)

G5493 Assessment and Evaluation in Human Relations. Prerequisite: graduate standing or permission of instructor. Provides an overview of clinical and social assessment procedures used in counseling settings including career and life planning, personality, and mental health assessments. Emphasis is placed on a thorough examination of diagnostic classifications for mental disorders. Also develops a working knowledge of assessment skills along with a bias-free multicultural perspective, and ethical issues applicable to assessment. (F, Sp)

G5613 Human Relations in Education (Crosslisted with EACS 5613). Prerequisite: graduate standing. Focuses on interpersonal, intergroup and intergroup relations problems in the public schools. Specifically, deals with persistent school/classroom problems associated with multiculturalism. Attempts to blend theory and practice through a lecture/discussion/problem-solving approach. Emphasizes teacher self-awareness as a major aspect of the human relations approach. (F, Sp)

G5960 Directed Readings in Human Relations. 1 to 6 hours. Prerequisite: graduate standing, permission of instructor. May be repeated; maximum credit six hours. Individual investigations and report of findings on selected problems in human relations education. (F, Sp, Su)

G5980 Research for Master’s Thesis. Prerequisite: admitted to candidacy for a Master of Human Relations. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. Original paper in an area of concentration in human relations. (F, Sp, Su)

G5990 Independent Study. 1 to 4 hours. Prerequisite: 5023 or equivalent and permission of instructor. May be repeated; maximum credit six hours. Individual investigation of special research topics in human relations. (F, Sp, Su)
Industrial Engineering (I E)

The school offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

2281 Engineering Co-Op Program (Crosslisted with AME, CH E, C E, C S, ENGR, ECE, E PHY, E S, G E, P E 2281). Prerequisite: participation in the program. The Co-Op program provides student placement in jobs outside the University, but in a position related to the student’s major. On completion of a semester work period, the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

2301 Engineering Materials and Manufacturing Processes. Prerequisite: Civil Engineering 2113; Corequisite: 2311. Structures and physical/chemical properties of materials, metals and alloys, composites, manufacturing processes. (Sp)

2311 Computer Aided Design and Graphics Laboratory for Industrial Engineers. Fundamentals of engineering design, AutoCAD, proE and SolidWorks applications. (Sp)

2823 Enterprise Engineering. Prerequisite: sophomore standing. Introduction to the industrial engineering role as enterprise system integrator. Systems concepts, modeling and analysis; integrated product/service and operational process design; productivity and quality improvement; computer technology insertion; project, operations, and global supply chain management. (F)

2960 Directed Reading. 1 to 3 hours. Prerequisite: Engineering 1112; permission of the department; special permission card required. May be repeated; maximum credit three hours. Individual project studies for University College students in industrial engineering. (F)

†G3304 Design and Manufacturing II. Prerequisite: 2303 and Engineering 2313; corequisite Engineering 2153. Dimensioning and tolerancing; tolerances—type, design and specification; assembly and fit design; tolerance standards; process planning—precedure representation in machining, operation and machine sequencing; jigs and fixtures—design and analysis; time and cost estimation for machining; automation; processes/system integration. Laboratory (F)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Projects covered will vary. Deals with concepts not usually presented in regular coursework.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student's field. (F, Sp, Su)

3990 Special Topics. 1 to 3 hours. Directed study for undergraduates. (F, Sp, Su)

4113 Decision Support System for Industrial Engineers. Prerequisite: 4623; Computer Science 1323, or permission of instructor. This course will cover principles and tools for developing decision support systems for solving industrial engineering problems. Tools that will be used are Microsoft Excel, Visual Basic for Excel, and Microsoft Access. The advanced features of Excel for data manipulation and presentation as well as optimization will be covered. The embedded Visual Basic language in Excel will be taught. Principles of database design will be studied together with Access software. The applications will cover a wide range of topics such as simulation, queuing, quality control, system reliability, and program reliability. At the end of the course the students should acquire basic skills to develop a small-scale but complete decision support system with Microsoft Office tools. Students are required to bring a laptop to the class to complete in-class exercises. (F)

†G4333 Production Systems and Operations. Prerequisite: 3304 and 4623. Operations-oriented topics for production systems. Supply chain process (tactical planning, operational scheduling and sequencing, management and planning, demand promising). Customer service process; E-Business and information technology applications for production systems. (F)

4363 Facility Planning, Warehousing, and Material Handling (Slashlisted with 5363). Prerequisite: 4623. Facility location and layout models, design, analysis, and improvement of warehousing operations, material handling systems in manufacturing and warehousing operations, informational technologies for management of operations, supply chain relationships. (Sp)

4393 Capstone Design Project. Prerequisite: senior standing, students must have taken the EIT exam, and permission. Restricted to graduating industrial engineering students; to be taken in the last semester. Current problems drawn from production and service organizations will be presented by personnel from these organizations. Students will solve these problems under the guidance of their instructor, using industrial engineering methodology. (F)

4533 Engineering Experimental Design (Slashlisted with 5533). Prerequisite: Engineering 3293. Fundamentals of design of experiments. Analysis of variance models for single factor designs with blocking factors and multi-factor designs, including factorial and nested designs. Fixed, random and mixed models. Analysis of covariance models. No student may earn credit for both 4533 and 5533. (Sp)

4563 Quality Engineering (Slashlisted with 5563). Prerequisite: 4533 and Engineering 3293. The use of statistical methods for quality control and improvement in product and non-product environments for engineering and management utilization. Focus will be on statistical process control tools and total quality management. No student may earn credit for both 4563 and 5563. (F)

4623 Systems Modeling and Optimization. Prerequisite: 2823. Problem solving using analytical models. Introduction to optimization, linear programming, integer, dynamic programming, and goal programming methods. Simplex method and sensitivity analysis. Practical applications using optimization software such as LINDO, LINGO, EXCEL SOLVER. Analytical decision making. Introduction to stochastic programming. (F)

4633 Applied Engineering Optimization. Prerequisite: 4623 and Engineering 3293. Data mining techniques, heuristics and applications of operations research to financial engineering, site selection, transportation, transshipment and assignment problems. Routing techniques, facility layout models, queuing models and applications, Monte Carlo simulations and applications. (Sp)

4663 Systems Analysis Using Simulation. Prerequisite: 4633. Engineering 3293. Implements the science of systems analysis through the use of simulation modeling and statistical analysis; inclusive of time study analysis for performing input modeling tasks. Laboratory (F)

†G4824 Ergonomics. Prerequisite: 2823. The measurement of human physical capabilities and limitations. Measurement of the environment and elicited human responses. Workplace, equipment, and job design with regard to human performance efficiency, health, and safety. Laboratory (Sp)

4853 Applied Research Methods (Slashlisted with 5853). Prerequisite: 4553 and 4824. Experimental methodology for empirical investigation, including problem formulation. The development and measurement of performance criteria, experimental and oral communication. The measurement of human performance is typically the vehicle used for students in this course. No student may earn credit for both 4853 and 5853. (F)

4990 Special Studies. 1 to 3 hours. Prerequisite: senior standing. May be repeated once; maximum credit six hours. Directed study for undergraduates. (F, Sp, Su)

G5263 Introduction to Expert Systems. Prerequisite: 3253 or equivalent. Introduction to the basic concepts, design and applications of expert systems. Specific topics include history of artificial intelligence, early applications, conventional programming versus knowledge engineering, languages, research problems, and engineering applications. (F, Su)

G5303 Computer-Aided Manufacturing. Prerequisite: 3304 or permission. Computer applications to machines and products in manufacturing systems. Numerical control concepts, control theory as applied to numerical control, computer-assisted N/C programming (APT, Compact II, etc.), automated process planning, adaptive control and robotics. Laboratory (Sp)

G5313 Advanced Metal Cutting. Prerequisite: 3304 and permission of instructor. Theory of metal cutting or machining. Mechanics and dynamics of metal cutting are discussed with relevance to existing literature. The role of sensors in automation of machining is explored. Laboratory (F)

G5323 Advanced Production Systems and Operations. Prerequisite: 4333. Laws of factory physics that describe the basic behavior of discrete manufacturing systems. Limitations of traditional control approaches (i.e. MRP and DRP). Modern approaches to planning of material and capacity. Differences between push system and pull systems. Theory of constraints. The corrupting effects of variability on a manufacturing system. Operational performance measures. Industry-specific differences in business drivers and system behavior. (Sp)

G5343 Reliability in Engineering Design. Prerequisite: Engineering 3293 or permission of instructor. Probabilistic reliability models for the lifetimes of manufactured components. Structure functions, system reliability calculations, lifetime distributions, models of dependence, parameter estimation, availability, maintainability, burn-in, preventive maintenance. Laboratory (Sp)

G5353 Design of Quality Assurance Systems. Prerequisite: Engineering 3293. The methods of statistical quality control; industrial case studies;
G5423 Advanced Engineering Economics. Prerequisite: Engineering 4223. Economic analysis under conditions of risk and uncertainty with particular emphasis on econometric models applied to engineering systems. (Irreg.)

G5513 Engineering Decision Analysis. Prerequisite: Engineering 3293. The no-data problem; decision criteria; decisions with experimentation; extensive and normal forms of analysis; optimal stopping; utility and loss functions; multiple-criterion decision making; applications of decision analysis. (Irreg.)

G5523 Applied Probabilistic Models in Industrial Engineering. Prerequisite: 4633 or permission of instructor. Review of probability theory, random variables, discrete and continuous distributions, moment generating functions and conditional probability; introduction to Markov chains, Markov processes and renewal theory; applications to queueing theory, inventory systems and reliability models. (Irreg.)

G5553 Engineering Experimental Design (Slashed with 4553). Prerequisite: Engineering 3293. Fundamentals of design of experiments. Analysis of variance models for single factor designs with blocking factors and multi-factor designs, including fractional and nested designs. Fixed, random and mixed models. Analysis of covariance models. No student may earn credit for both 4553 and 5553. (Sp)

G5563 Quality Engineering (Slashed with 4563). Prerequisite: 4553 and Engineering 3293. The use of statistical methods for quality control and improvement in product and non-product environments for engineering and management utilization. Focus will be on statistical process control tools and total quality management. No student may earn credit for both 4563 and 5563. (F)

G5573 Statistical Analysis of Simulation Models. Prerequisite: 4663, and Engineering 3293; or permission. Probabilistic and statistical aspects in the design and analysis of stochastic simulations: random number generation, random variate generation, input modeling, output analysis (including time series models and spectral analysis), ranking and selection and variance reduction techniques. Laboratory (Sp)

G5603 Multicriteria Optimization. Prerequisite: 4623. Survey of developments and applications of theory and methods pertinent to decision making under conflicting criteria. A primary emphasis will be placed on the use of nonlinear unconstrained and constrained optimization problems arising in engineering practice. Emphasis is on models and methods applicable to problems in engineering design, process operations, control, production planning, manufacturing and management. (F)

G5653 Engineering Network Flow Analysis. Prerequisite: 5623. Modeling network flow problems, algorithms and computational analysis of networks. Topics include: graph theory, shortest path problems, network flow problems, computer applications. (Sp)

G5633 Simulation I. Prerequisite: 4663, Engineering 3293 or permission of instructor. Advanced network modeling, continuous modeling, discrete event modeling, animation. (F)

G5673 Simulation II. Prerequisite: 5663. Advanced study of simulation methodology. Provides practical experience in building and running computer simulation models of industrial systems. Utilization of statistical techniques for analyzing the output from a simulation is also emphasized. Addresses discrete event simulation as well as animation. (Sp)

G5683 Applied Operations Research. Prerequisite: 4623, 4633 and/or permission. The application of operations research techniques to the solution of some real world problems. Discussion of case studies in operations research is included. The instructor may select an area of interest in production or service systems which will relate related quantitative methods applied to this area. A group project is essential for this course. (Irreg.)

G5713 Engineering Project Management. Prerequisite: Engineering 3293 or permission of instructor. Review of the various technical and managerial aspects of project management. Introduction to extensions of CPM and PERT. Specific topics include network development and analysis, precedence constraints, resource allocation, time-cost trade-off, heuristics, criticality index, computer applications, design and analysis of engineering projects, and optimization techniques for project scheduling. (Sp)

G5743 Management of the Engineering Function. Prerequisite: 2823 or graduate standing. Explores major concepts of engineering management and how to apply these concepts in managing the engineering function in an enterprise. Intensive analysis of the specialized problems of engineering organizations which include technical human power. Procedures and design for the control of engineering projects. Specific examples and cases of management problems and experiences are used. A research project is required that involves at least one of the functions of engineering management. (F)

G5753 Organization Systems. Prerequisite: graduate standing or permission. The organization is examined as a complex of subsystems to accomplish production or service objectives. Individuals as members of the subsystems are examined as human factor elements in contributing to the analysis of effectiveness and efficiency of systems. Organizations are viewed from a macro standpoint with emphasis on engineering organizations. Current trends and cases are reviewed with case presentations required. A research project evaluating and organization is required from an engineering management viewpoint. (Sp)

G5813 Information Ergonomics. Prerequisite: 2823. The measurement of human mental capabilities and limitations: perception, memory, decision making, communication, control of motor activity, learning. The design of controls, displays and information systems with regard to performance efficiency, health and safety. The human being as a consumer and generator of information. (F)

G5823 Exercise Physiology (Crosslisted with Health and Sport Sciences, Physiology 5823). Prerequisite: 4824; Zoology 3104 or 3133; Physiology 5016 or 5019; or permission. Advanced study of physiological responses, regulatory mechanisms and adaptations of human performance and health; factors affecting performance and health; and training and evaluative techniques. (F)

G5833 Ergonomics in Safety Research and Practice. Prerequisite: senior or graduate standing and 4824 or 5813 or permission of instructor. Designed to introduce the student to concepts of product liability, workers' compensation, occupational safety and health, and systems safety from both a historical and current standards and practices perspective. Methods of controlling product liability losses and reducing workers' compensation cost are discussed. Safety concepts and methodologies as they relate to large-scale systems design are presented and discussed. (Sp)

G5843 Biomechanics (Crosslisted with Health and Sport Sciences 5843). Prerequisite: 4824 or HSS 3713 or permission. Review of muscle, bone and joint structure and function. Review of kinematic and kinetic principles as applied to human movement. Analysis of human movements using film, anthropometric, dynamometer, force platform, electromyographic and performance techniques. Application of human movement analysis to ergonomics, sport and rehabilitation. (F)

G5853 Applied Research Methods (Slashed with 4853). Prerequisite: 4553 and 4824. Experimental methodology for empirical investigation, including problem formulation. The development and measurement of performance criteria, experimental and oral communication. The measurement of human performance is typically the vehicle used for students in this course. No student may earn credit for both 4853 and 5853. (F)

G5970 Seminar in Industrial Engineering. 1 to 3 hours. Prerequisite: graduate standing or permission. May be repeated with change of content; maximum credit twelve hours. Special topics in the various fields of industrial engineering—engineering economy, operations research, ergonomics, production, manufacturing, simulation, engineering statistics and computer systems. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Research for Master’s Thesis. 1 to 4 hours. Prerequisite: senior standing, permission. May be repeated; maximum credit six hours. (F, Sp, Su)

G6343 Design of Production Systems. Prerequisite: 5323 and 5623. Modeling, criteria, constraints, decision, optimization and system design. Applications of optimization to the design, re-design and operation of production systems (from single sites to entire supply chains). Industrial dynamics, facility location, inventory design, transportation network design, and integrated supply chain design. Emphasis will be on the rigorous application of exact and heuristic computational techniques to realistic classes of discrete production systems. Topics of current relevance are addressed through a major course project. (Sp)

G6623 Nonlinear Programming. Prerequisite: 5623. Theory and computational aspects of nonlinear optimization problems. Topics include: applications and problem formulation, convexity, Kuhn-Tucker conditions, duality, quadratic programming, unconstrained optimization techniques, direct search methods, penalty function, optimization methods, feasible direction methods, separable programming, geometric programming. (Irreg.)
G6643 Integer Programming. Prerequisite: 5623. An introduction to the applications and computational techniques available for solving integer programming problems. Topics include: branch and bound, cutting plane methods, Bender’s partitioning algorithm, set covering and set partitioning algorithms and knapsack method. (Irreg.)

G6663 Advanced Simulation Topics. Prerequisite: 5673, or permission of instructor. Advanced simulation topics; simulation language design; special purpose languages, continuous process simulation. (Irreg.)

G6833 Ergonomic Issues in Product Design. Prerequisite: 5813, 5833, or permission. The study of ergonomic issues in the design, manufacture and use of products. Product definition, developing a design data base, conceptual design, hazard analyses, prototype development and testing, final design, instructions/warnings and training for product use. Laboratory (Irreg.)

G6853 Human Factors in Computer Systems. Prerequisite: 5813 or permission of instructor. Important factors involved in designing the human/computer interface based on established principles of ergonomics, existing guidelines and current research. Topics include: identifying user characteristics, code design, menus, interactive dialog procedures, input and output devices, documentation, training and VDT workplace. Students may be required to make class presentations. (Sp)

G6883 Case Studies in Human Factors. Prerequisite: 4823, 5813. Case studies in the analysis and design of complex systems with regard to the allocation of function between people and machines. (Irreg.)

G6933 Special Topics in Industrial Engineering. Prerequisite: graduate standing or permission. May be repeated; maximum credit twelve hours. Evaluation and simulation of various industrial engineering systems emphasizing the system as an integrated structure. (Irreg.)

G6980 Research for Doctoral Dissertation. (F, Sp, Su)

G6990 Special Studies in Industrial Engineering. 1 to 4 hours. Prerequisite: graduate standing. May be repeated; maximum credit six hours. Special problems in the various fields of industrial management engineering. Special studies in data processing, engineering economy, engineering economic planning, engineering statistics and quality control, operations research, environmental engineering, person-machine systems, bionics or biotechnology. (F, Sp, Su)

Interdisciplinary Perspectives on the Environment (IPE)

1013 Introduction to Interdisciplinary Perspectives on the Environment. A team-taught introduction to the effort to understand environmental issues in an interdisciplinary way. Students will learn how complex interactions between natural processes and human activities shape aspects of the global, regional, or local environment. The precise topic varies, as determined by the three faculty team (one from the natural sciences, one from the social sciences, and one from the humanities). (F) [III-SS]

3800 Environmental Internship. 1 to 3 hours. Prerequisite: Junior standing and permission of IPE coordinator. Supervised work experience at a business, government or non-profit agency dealing with an environmental issue. May require specific preparation, as appropriate. SU grade based on completion of advance preparation, if any; evaluation by workplace supervisor; and coordinator’s evaluation of a report on the issue dealt with during the internship. (F, Sp, Su)

4003 Practicum on Environmental Issues. Prerequisite: Permission of IPE coordinator. Students work in small groups on an environmental problem facing central Oklahoma. A variety of skills and concepts will be applied to cooperatively propose a solution that incorporates the perspectives of the sciences, social sciences, and the humanities. (Sp)

Interior Design (I D)

2544 Architectural Design/Human Factors (Crosslisted with Architecture 2544). Prerequisite: Environmental Design 2143 and 2534. Study of human needs and activities as design determinants; lectures and individual projects. Emphasis on the design implications of spatial relationships, scale and function. Additional emphasis on the relationship between architecture and interior design. Laboratory (Sp, Su)

2763 Computer Applications in Interior Design. Prerequisite: Permission of instructor. Use of computer-aided design and its role in interior design professional practice. Applications to demonstrate design process and problem-solving solutions in two- and three-dimensional representation and modeling. (F, Su)

2773 Interior Construction. Prerequisite: Environmental Design 2143, 2212. Introduction to building and finish materials used in the design of non-loadbearing interior construction. Intended to develop an accurate and efficient expression of selection and detailing of materials and assemblies in conceptual drawings. Studio/Laboratory (Sp)

3724 Interior Design II. Prerequisite: 2544, 2773 or permission. Introduction to planning processes and the application of design principles to commercial design projects. Space planning process, design philosophy, specifications and oral presentations will be expected on each project. Studio/Laboratory (F)

3734 Interior Design III (Crosslisted with Architecture 3734). Prerequisite: 3724, Architecture 3223 or permission. Focuses on conceptual design, lighting design, and regulatory constraints in commercial interiors. Studio/lecture presentation of design principles in lighting, acoustics and space planning. Emphasis on contract interiors where lighting is of major importance. Studio/Laboratory (Sp)

3753 History of Interior Design, Early Civilization to 1800 (Crosslisted with Art History 3753). Historical survey of architectural interiors and of the decorative arts from prehistory to 1800. Readings, lectures and discussion about the art, composition and aesthetic theories that give value to historical interiors. (F) [IAIWC]

3763 History of Interior Design, 19th and 20th Centuries (Crosslisted with Art History 3763). Prerequisite: 3753 or permission. History of interiors with emphasis on cultural and socio-economic factors which led to their development. Emphasis on designers and patrons and on the major furnishings and design ideas of the nineteenth and twentieth centuries. (Sp)

3773 Furniture Design. Prerequisite: 2544, 2773, and EN D 2013. The design and construction of furniture. Emphasis on design and construction processes, working drawings, materials and methods for custom and manufactured furniture and casework. Studio/Laboratory (F)

3783 Professional Practice I—Interior Materials and Specifications. Prerequisite: 3724, 3773 or permission. Study of the basic characteristics and installation of finishes used in the design of interiors, building codes, fire safety and regulations for accessibility. Emphasis on writing specifications for FF&E for non-loadbearing construction. (Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics in keeping with student’s major program. The topics will cover materials not usually presented in the regular courses.

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Content deals with concepts not usually presented in regular coursework.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for work on special projects under guidance.

4744 Interior Design IV. Prerequisite: 3734, 3783 or permission. Design projects develop conceptual and critical thinking in design of institutional and corporate interiors. Lighting, interior systems, construction detailing and scheduling integrated into design projects. Studio/Laboratory (F)

4762 Professional Practice II—Interior Design Office Practice. Prerequisite: 2773, 3734, 3783 or permission. Study of the professional practice of interior design: office practice, business procedures and professional ethics. Contract practice, design project management, and project completion are important emphases of coursework. (F)

4763 Advanced Computer Applications. Prerequisite: Permission of instructor. Computer graphics, three-dimensional computer modeling, animation, rendering and programming to provide representation strategies for interior design problem-solving and presentation. (Sp, Su)

4776 Interior Design V. Prerequisite: 3783, 4744, 4762 or permission. Capstone studio with projects that are specific design situations. Students work with interior design practitioners using real projects with FF&E from current markets. Emphasis on professional design experiences and a comprehensive overview of the major. Studio/Laboratory (Sp) [IV]

4783 Topics in Computer Applications. Prerequisite: Permission of instructor. Emerging technology and its application to interior design problem-solving. (Irreg.)

4940 Field Work. 1 to 3 hours. Prerequisite: permission of instructor. Field study related to the student’s major in a position approved by the instructor. One hour credit per 120 hours of field work or equivalent. Documentation and evaluation is required. (F, Sp, Su)

4990 Independent Study. 1 to 3 hours. Prerequisite: permission of instructor and director. May be repeated; maximum credit six hours. Contracted
independent study for topic not currently offered in scheduled courses. Study may include research and/or field projects. (F, Sp, Su)

**G5960 Directed Readings.** 1 to 4 hours. Prerequisite: graduate standing; permission of instructor, adviser and dean. May be repeated; maximum credit six hours. (F, Sp)

**G5990 Special Studies.** 1 to 6 hours. Prerequisite: permission of instructor, adviser and dean. The opportunity is provided for students with above-average grades to do individual library or laboratory work on special problems not included in present courses. (F, Sp)

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### International Courses (INTL)

**1000 Study Abroad.** 1 to 15 hours. Designed to facilitate student participation in study abroad and reciprocal exchange programs. (F, Sp, Su)

**2000 Study Abroad.** 1 to 15 hours. Designed to facilitate student participation in study abroad and reciprocal exchange programs. (F, Sp, Su)

**3116 Graz, Austria Summer Program.** Prerequisite: junior standing or permission of International Exchange Programs office. Survey of the history and current political realities of south eastern Europe. Comprises Austrian history within a Balkan context, history of Yugoslavia, and study of the integration of south east European states in European institutions following the demise of communism. Experiential learning through field trips (Vienna, Zagreb, Ljubljana). Intensive German language course and fine arts component (concerts, opera, architectural monuments). (Su)

**4000 Study Abroad.** 1 to 15 hours. Designed to facilitate student participation in study abroad and reciprocal exchange programs. (F, Sp, Su)

**G5000 Study Abroad.** 1 to 15 hours. Prerequisite: permission of the graduate dean and the student’s major department before enrollment. Designed to facilitate student participation in study abroad and reciprocal exchange programs. (F, Sp, Su)

**G6000 Study Abroad.** 1 to 15 hours. Prerequisite: permission of the graduate dean and the student’s major department before enrollment. Designed to facilitate student participation in study abroad and reciprocal exchange programs. (F, Sp, Su)

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### International and Area Studies (IAS)

**1003 Introduction to International and Area Studies.** Introduces students to the concept of interdisciplinary international area studies and will examine the fundamentals and processes that shape the development of the world’s most important geographic regions. The course will stress the need to use and share knowledge about world culture, art, history, languages, politics, and geography in order to succeed in an interdependent global community. (F)

**1303 Introduction to Latin American Studies.** Examines the recent history of Latin American societies from a multi-disciplinary standpoint. Traces the political and economic development of the region, from the Cuban revolution to the present. Readings include works from the disciplines of history, sociology, political science, journalism, and anthropology. (Sp) [IV-WC]

**2603 Governments Around the World (Crosslisted with Political Science 2603).** Prerequisite: 1113. Gateway course in political science and international and area studies. Provides an introduction to the varieties of politics and governmental systems around the world. Students will develop skills in comparative analysis to understand why countries have distinct types of government. (F) [IV-WC]

**3003 Topics in International and Area Studies.** Prerequisite: junior standing. May be repeated with change of content; maximum credit nine hours. Readings, analysis, and/or research on one or several selected topics in international and area studies. (Ireg.)

**3113 Gender in East Asia.** Prerequisite: junior standing or permission of instructor. The history of women and gender in China, Japan, Korea from 1800 to the present. Will also examine how the philosophies of Buddhism and Confucianism help determine gender and social relationships. (Sp)

**3213 European Union, NATO, and European Security.** Prerequisite: junior standing or permission of instructor. This course explores changes in security and foreign policy issues in eastern Europe. Specifically, it examines the enlargement of the European Union, expansion of NATO and the development of the European security and defense policy. (Ireg.)

**3313 Latin American International Relations.** Prerequisite: junior standing or permission of instructor. Examines international relations of Latin America in an interdisciplinary fashion. International relations is broadly defined in this course, and includes economic and cultural aspects as well. (Ireg.) [IV-WC]

**3853 Social Problems in Contemporary Russia and Eastern Europe (Crosslisted with Sociology 3853).** Prerequisite: junior standing or permission of instructor. Interdisciplinary study of social problems in Russia and Eastern Europe. Topics include human and physical geography, lingering aspects of Soviet life, privatization, the impact of the transition on social and governmental institutions, and the relationship between social structure and crime throughout the country. (Ireg.)

**3960 Honors Reading.** 1 to 6 hours. Prerequisite: junior standing and permission of Honors Program. May be repeated once with change of content. Independent study in international and area studies for students enrolled in the Honors Program. Will consist of topics not usually presented in regular courses. (F, Sp, Su)

**3970 Honors Seminar.** 3 to 6 hours. Prerequisite: admission to Honors Program. May be repeated once with change of content. Small group seminar on topics not covered by normal coursework. Restricted to students in the Honors Program. (Ireg.)

**3980 Honors Research.** 1 to 6 hours. Prerequisite: junior standing and permission of Honors Program. May be repeated once with change of content. Provide international and area studies students an opportunity to work on an international research project. (F, Sp, Su)

**3990 Independent Study.** 1 to 6 hours. Prerequisite: junior standing or permission of instructor. May be repeated once with change of content. Independent study may be arranged to study a subject not available through regular course offerings. (F, Sp, Su)

**4013 Senior Capstone Seminar in International and Area Studies.** Prerequisite: international and area studies major and senior standing. Devoted to analysis, research, writing, and synthesizing on one of several selected interdisciplinary topics in international and area studies. (F, Sp) [V]

**G5213 Politics of the European Union.** Prerequisite: graduate standing or permission of instructor. Examines the historical process of European integration. Topics include the structure of the EU institution, the process of law making in the EU, the international role of the EU, the trans-Atlantic relationship. (F)

**G5313 Mass Culture and Culture Industries in Modern Latin America.** Prerequisite: graduate standing or permission of instructor. Examines the complex process of modernization in Latin America the emergence of commercial media and forging of mass cultures. Themes include the transformation of popular and elite cultures with the rise of modern media; the impact of state-led cultural projects; the changing social roles of intellectuals and other cultural producers; and the interaction of local, regional, and global media institutions. (Ireg.)

**G5930 Seminar in International Studies.** 1 to 4 hours. Prerequisite: graduate standing or permission of instructor. May be repeated with change of content; maximum credit nine hours. Analysis, research, and writing on one or several selected topics in international studies, international development, and/or international management. (Ireg.)

**G5940 Topics in International Studies.** 1 to 4 hours. Prerequisite: graduate standing or permission of instructor. May be repeated with change of content; maximum credit nine hours. Analysis of one or several selected topics in international studies, international development, and/or international management. (Ireg.)

**G5950 Research Problems.** 2 to 5 hours. Prerequisite: graduate standing. May be repeated with change of content; maximum credit six hours. Directed research and writing on selected topics in international relations, international development, and international management. (F, Sp, Su)

**G5960 Directed Readings.** 1 to 3 hours. Prerequisite: graduate standing. May be repeated; maximum credit six hours. Directed individual readings on selected topics in international relations; international development, and/or international management. (F, Sp, Su)

**G5980 Research for Master’s Thesis.** 2 to 6 hours. Prerequisite: admission to M.A. in International Relations. May be repeated; maximum credit four hours. Directed individual research and writing on master’s thesis. Student must be admitted to the M.A. in International Relations program. (F, Sp, Su)

**G5981 Thesis Writers’ Seminar.** Prerequisite: admission to M.A. in International Relations. Provides guidance for Work on the master’s thesis and discusses problems of research design, assembling bibliography, identifying sources, and effective written presentation of research findings. Students will present a thesis prospectus, working bibliography, and chapters for comment. (Ireg.)

**G5990 Independent Study.** 1 to 3 hours. Prerequisite: graduate standing. May be repeated; maximum credit six hours. Directed individual work on topics in international relations, international development, and/or international management. (F, Sp, Su)
**Italian (ITAL)**

1115 Beginning Italian I. An elementary course in understanding, speaking, reading and writing Italian. **Laboratory** (F, Sp) [I-FL]

1225 Beginning Italian II. Prerequisite: 1115. Fundamentals of Italian continued. **Laboratory** (F, Sp) [I-FL]

2113 Intermediate Italian. Prerequisite: 1225. Develops reading skills and control of grammar while encouraging oral and written ability. Emphasis on expansion of vocabulary and re-enforcement of grammatical structures. Readings and discussions of texts of literary and cultural interest. Oral and written assignments. (F, Sp)

2221 Intermediate Italian Continued. Prerequisite: 2113. Emphasizes advanced reading skills and mastery of grammar. Emphasis on sophisticated vocabulary and understanding of grammatical structures. Literary and cultural texts discussed in oral and essay form. (Sp)

3073 Italian Conversation. Prerequisite: 2223. Intensive practice in speaking Italian on topics of everyday life. (Sp)

3423 Advanced Italian Composition. Prerequisite: 2223. The inculcation of proper writing habits, at an advanced level, toward the achievement of idiomatic Italian. (F)

3853 Reading in Italian Literature. Prerequisite: 2223. Designed to improve reading comprehension and to introduce the techniques of literary analysis. Representative works from the various literary genres will be studied. (Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

4990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

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**Japanese (JAPN)**

1115 Beginning Japanese. An elementary course in understanding, speaking, reading and writing Japanese. **Laboratory** (F) [I-FL]

1225 Beginning Japanese. (Continued) Prerequisite: 1115. An elementary course in understanding, speaking, reading and writing Japanese. **Laboratory** (Sp) [I-FL]

2113 Intermediate Japanese. Prerequisite: 1225. Combination of basic Japanese grammar and vocabulary and their application to spoken and written Japanese. **Laboratory** (F)

2221 Intermediate Japanese. (Continued) Prerequisite: 2113. Develops control of the grammar, vocabulary and idioms of spoken Japanese and provides a thorough introduction to the Japanese writing system as well as some grammatical structures peculiar to written Japanese. **Laboratory** (Sp)

3113 Advanced Japanese Comprehension. Prerequisite: 2223. This course trains students in advanced Japanese language skills of speaking, listening, reading, and writing and introduces new grammatical forms, vocabularies and expressions. The course prepares students to understand Japanese society. (Irreg.) (F)

3123 Advanced Japanese Practice. Prerequisite: 2223. This course trains students in advanced Japanese language skills in speaking, listening, reading and writing. Students learn grammatical forms and new vocabularies and expressions. Reading materials emphasize practice of Japanese everyday language. (Irreg.) (F)

3133 Advanced Japanese Culture. Prerequisite: 2223. This course trains students in advanced Japanese language skills in speaking, listening, reading and writing. Reading material focuses on Japanese culture. (Irreg.)

3221 Advanced Japanese Conversation and Composition. Prerequisite: 3113, 2123. An advanced course in conversation and composition covering political, literary, religious and social topics. This course prepares the student to take the Japanese language proficiency test-level 2. (Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: 2223. May be repeated; maximum credit twelve hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

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**Journalism and Mass Communication (JMC)**

The school offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

0123 Fundamentals of Writing for the Media. Emphasis will be on fundamentals of writing technique for journalists and other communicators, with a minimum of thirty writing assignments, most in a timed laboratory environment, but some on a take-home basis. Examination of information, logical arrangement of facts, and straightforward, literate writing of the material to prescribed length will be taught. Special attention given to fundamentals in grammar and syntax. Not acceptable for degree credit at the University of Oklahoma. **Laboratory** (F, Sp)

1013 Introduction to Mass Communication. Development, scope, functions and information resources of mass media, emphasizing the role of professionals in mass communication and in solving contemporary problems in the mass media. (F, Sp)

2033 Writing for the Mass Media. Prerequisite: 1013 or concurrent enrollment; passage of the school’s writing skills test. Introduction to journalistic writing: the expository and persuasive formats; supervised practice in writing for the print, broadcast and photographic media; study of professional demands of organizing and presenting information in the various media. **Laboratory** (F, Sp)

2683 Survey of Broadcasting. Prerequisite: 1013. Survey of radio and television media: units of technology, history, regulation, programming, advertising, management and production. (Sp)

3011 Mass Media Practices. Prerequisite: permission. May be repeated with change of content; maximum credit three hours, two hours may be in the same area. Restricted to the WIRE, Oklahoma Daily, Radio Station KCOU, Norman Cable News and The Sooner Yearbook student staff members. (F, Sp, Su)

3103 News Gathering and Presentation. Prerequisite: 1013, 2033. Relation of reporter with news sources and execution of basic types of news coverage, including interviews, with emphasis in the laboratory on news gathering for the Oklahoma Daily. **Laboratory** (F, Sp, Su)

3203 Feature Writing. Prerequisite: 1013 and 2033. Recognition and development of ideas for feature stories for various media. Instruction in background research and interviewing methods, writing and rewriting to develop an individual writing style. Students research, write and rewrite a minimum of eight feature stories. (Irreg.)

3103 News Editing. Prerequisite: 1013, 2033, 3303. Elementary desk work on newspapers, including correction of errors of fact and expression. The factors considered in selection of news. Good taste in editing copy, avoidance of libel; headline writing; techniques of copy control; newspaper makeup and arrangement. **Laboratory** (F, Sp)

3143 Basic News Photography. Prerequisite: 2033 and admission to school. Basic photographic skills needed to produce photographs suitable for newspaper and magazine publication. Content includes 35mm photography, darkroom techniques, news judgment, ethics, privacy issues, crime scene, courtroom and government protocol. 35mm camera required. **Laboratory** (F, Sp)

3303 Introduction to Advertising. Prerequisite: 1013, 2033 or permission. Survey of the field of advertising and career areas within the field with emphasis on the relationship between marketing and advertising and the media which serve as channels of advertising communication. (F)

3333 Advertising Research. Prerequisite: 1013, 2033, 3303. Introduction to concepts of research. Survey and use of secondary and primary data sources as basis for formulating basic advertising plans, including advertising and communications goals and objectives. (Sp)

3353 Advertising Copy and Layout. Prerequisite: 1013, 2033, 3303 or permission. Principles and their application in advertising design and copywriting. Stress on the analysis of appropriate appeals and the development of advertising concepts to convey these through the various media. Emphasis on practice in making rough layouts and writing finished copy. **Laboratory** (Sp)

3363 Advertising Media. Prerequisite: 1013, 2033, 3303, 3333. Characteristics of the major advertising media. Problems of rates, coverage and costs of using various media mixes. Emphasis on the planning of the media schedule and its relationship to the creative strategy. (F)
3393 Advanced Copywriting, Prerequisite: 1013, 2033, 3303, 3333, 3353. Extended practice in application of creative copy principles for major advertising media including newspapers, magazines, radio and television. (Irreg.)

3413 Principles of Public Relations, Prerequisite: 1013, 2033. The history, scope, ethics and functions of public relations. Particular attention given to ways of gaining public support for an activity, cause, movement or institution. (F)

3423 Public Relations Writing, Prerequisite: 1013, 2033, 3413. Fundamentals and practice in preparation of public relations copy for various media and channels, including news and feature stories, photo captions, public service broadcasts and telecasts, viewbooks, annual reports, plans-programs, memos, speeches, letters and direct mail materials. Techniques in dealing with management and various publics, including the news media. Laboratory (Sp)

3433 Public Relations Publications, Prerequisite: 1013, 2033, 3413, 3423. Planning, writing and producing company and institution magazines with special emphasis on design, layout and content. Laboratory (F)

3504 Writing for the Entertainment Media, Prerequisite: 1013, 2033 and permission. Basic theory, orientation and fundamental techniques of fiction writing. (F, Sp)

3514 Writing the Short Story, Prerequisite: 1013, 2033, 3504 and permission. Techniques and theory of fiction writing and plots, with emphasis on current American short stories. (F, Sp)

3534 Professional Writing: Magazine Writing, Prerequisite: 1013, 2033, 3023 or 3504. Research, preparation, technical devices, marketing of the nonfiction article or book. Study of current trends, with emphasis on magazine nonfiction. (Irreg.)

3622 Writing for Broadcast, Prerequisite: 1013, 2033. Introduction to the various styles of writing news and non-news material for presentation on radio, television and motion pictures. Laboratory consists of time-bound practice in application of principles to different media. Laboratory (F, Sp)

3632 Audio Production, Prerequisite: 1013, 2033. Studies in the technology, capabilities and utilization of audio media and laboratory work in production/direction. One hour lecture, four hours laboratory per week. Laboratory (F, Sp)

3642 Video Production, Prerequisite: 1013, 2033, 3632. Studies the technology, capabilities and utilization of television medium. Units on video equipment, lighting, scenery, graphics, performance, production and direction. One hour lecture, four hours laboratory per week. Laboratory (F)

3653 Radio News, Prerequisite: 2033, 3622, 3632. Study and practice of writing, editing and preparation of radio newscasts. Laboratory (F)

3663 Electronic News Gathering Techniques, Prerequisite: 1013 and 2033. The history, theory and application of electronic news gathering techniques. Students learn to gather audiovisual information, evaluate it, edit it, and prepare the data for distribution through traditional and emerging news media. (F, Sp)

3673 Radio-Television Sales, Interpretation of sales, market and media data and use in making sales presentations on behalf of radio and television media. Emphasis is on creative use of these data regarding sales problems. (Irreg.)

3703 Photojournalism, Prerequisite: 1013, 2033 and permission. Assignments include preparation of portfolio involving techniques to add interest to photographic content and two photo stories submitted for sale to news and magazine editors. Laboratory (Irreg.)

3713 Film History, History and development of film as a communication medium. Varied critical perspectives are offered; exemplary films presented, preceded by lectures on history and technique, followed by discussion periods. (Irreg.)

3723 The Documentary Film, Prerequisite: junior standing. History and development of film as a documentary medium. Varied perspectives are offered; exemplary films presented, preceded by lectures on history and technique, followed by discussion periods. (Irreg.)

3773 Television News, Prerequisite: 2033, 3622, and 3663 or 3642. Television news principles and practice in use of ENG (electronic news gathering), editing of video tape stories and preparation of television news programs. Laboratory (F, Sp)

3800 Internship, 2 to 3 hours. Prerequisite: 3.00 grade point average required with a total of seventy-five semester hours completed, fifteen in journalism and mass communication courses. May be repeated; maximum credit five hours. Participation in supervised intern experience; grade of S or U based on work performance, regular reports, on-site supervisor evaluation and assigned readings. (F, Sp, Su)

3813 Typography and Design, General survey of development of graphic arts. Emphasizes techniques, processes and procedures for putting words and illustration into print media primarily, with particular attention to elements of effective design. Laboratory (Sp)

3960 Honors Reading, 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of content; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program; covers material not usually presented in regular courses. (F, Sp, Su)

3970 Honors Seminar, 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of content; maximum credit six hours. Projects vary; deal with concepts not usually presented in regular coursework. (F, Sp, Su)

3980 Honors Research, 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of content; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

C4013 Reporting Public Affairs, Prerequisite: 1013, 2033, 3013. Coverage of government news at the local level with special attention on court procedures, assessments, taxes and budgets and current city, county, state and school problems. Practical experience on city hall and courthouse assignments. (F, Sp)

4023 Advanced News Editing (Slashlisted with 5023), Prerequisite: 3103. Studies and laboratory experience in creative editing and newsroom management for the daily newspaper or magazine, including photo selection and editing, copy handling procedures, assignments, editing, planning, handling of special themes and areas of interest, personnel motivation and ethical problems of the editor. No student may earn credit for both 4023 and 5023. Laboratory (Irreg.)

4034 Reporting in Specialized Fields, Prerequisite: 2033. May be repeated with change of content; maximum credit six hours. Analysis of problems of news feature coverage by the media requiring specialized knowledge and techniques. Preparation of surveys of media performance and original articles dealing with a chosen field of specialization. Laboratory (Sp)

4053 Advanced Reporting (Slashlisted with 5053), Prerequisite: 3013. The development of Advanced Skills in informational, feature and beat reporting, and the advanced study of news gathering, presentation and gatekeeping theory. No student may earn credit for both 4053 and 5053. (Sp)

4103 Mass Communication Technology (Slashlisted with 5103), Prerequisite: upper-division standing. An examination of new communication technologies and their impact on the mass communication industry and on society in the framework of the information revolution. Topics include the electric revolution, print and broadcasting technologies, communication satellites and computers and their convergence, interactive communication systems, electronic age, and international impacts. No student may earn credit for both 4103 and 5103. (Sp)

C4313 Integrated Marketing Communication, Prerequisite: permission of instructor or graduate standing. Designed to provide a basic understanding of the integrated marketing communication approach to senior-level and graduate students in any of the functional marketing communication areas such as advertising or public relations, or students in marketing. Focuses on the use of the traditional marketing communication tools of advertising, marketing public relations, sales promotion, and direct marketing in a way that promotes b2b synergy and a continuing dialogue with the consumer as an individual. (Irreg.)

4323 Advertising Account Planning (Slashlisted with 5323), Prerequisite: 3303. Discussion and practice of the advertising agency function of representing the target audience. Emphasis on learning to think like a consumer. Incorporates creativity, market research, consumer behavior and critical thinking to help in understanding target audiences. No student may earn credit for both 4323 and 5323. (F)

4333 Contemporary Problems in Advertising (Slashlisted with 5333), Prerequisite: 1013, 2033, 3303, 3333. Survey of contemporary problems in advertising, including current social and economic criticisms, legal and self-regulation problems, and agency and media-related problems. No student may earn credit for both 4333 and 5333. (F)

4343 Advertising Campaigns, Prerequisite: 1013, 2033, 3303, 3333, 3353, 3363 and senior standing. This is the senior capstone course for the Advertising sequence. Working as members of competitive advertising agency teams, students research, plan, develop marketing, creative and media strategy and make formal presentations to a major client for a complete advertising campaign. (Sp, V)

4403 Public Relations Campaigns-Capstone, Prerequisite: 1013, 2033, 3413, 3423. Capstone course for the Public Relations sequence. Detailed analysis of current case studies in the planning, execution and evaluation of public relations programs and projects, including practical work in the field. Emphasis given to fact finding, researching publics, setting objectives, planning the program/project, execution and evaluation. (F, Sp, V)
4421 Public Relations Case Studies (Slashlisted with 5423). Prerequisite: 1013, 2033, 3413. Designed to demonstrate how to apply public relations theory to a wide range of possible situations. Requires the student to adapt the communications and PR models learned in the public relations principles course to a number of case studies and problems. No student may earn credit for both 4423 and 5423. (Irreg.)

4433 Sports Public Relations (Slashlisted with 5433). Prerequisite: 1013, 2033, 3413. A study of public relations as it is practiced in the sports industry featuring guest and video presenters representing various sports publicity, promotion and public relations positions. Includes representatives of newspaper, television, and radio sports departments. No student may earn credit for both 4433 and 5433. (Irreg.)

4443 Financial Public Relations (Slashlisted with 5443). Prerequisite: 3413. Introduction and practice designed to develop and understanding of the investor relations function in public relations activity for corporations. Study of stock market and the roles of the principal players on Wall Street and relevant regulatory powers. Analysis of annual reports and how they are produced as well as financial statements and communication efforts aimed at investors and the news media. No student may earn credit for both 4443 and 5443. (Irreg.)

4453 Public Relations Research (Slashlisted with 5453). Prerequisite: 3413. To build skills in the use of various public relations research methodologies available for exploratory, evaluation and management assessment of programs. No student may earn credit for both 4453 and 5453. (Sp) C4463 Public Relations Management. Prerequisite: 3413 or graduate standing. Theories and concepts of public relations as a management function. Emphasis on practical applications and case studies. Topics explored, in seminar fashion, include social and organizational contexts of public relations management, systems and strategies for planning, implementing and evaluating public relations activities, and tasks involved in public relations management. (F, Sp)

4503 Tutorial in Writing (Slashlisted with 5503). Prerequisite: 1013, 2033, 3504, 3514 and permission. May be repeated once for credit. May accompany 3514 with permission. Individual conferences devoted entirely to preparation, criticism, editing and preparation for marketing of the student's original manuscript, both fiction and nonfiction. No student may earn credit for both 4503 and 5503. (F, Sp)

4514 Writing the Novel. Prerequisite: 1013, 2033, 3504 and 3514; or permission. May be repeated; maximum credit eight hours. Analysis of the practical creative problems involved in writing novels. Instruction in specific approaches and techniques useful in plotting, characterization, setting, scene, etc. Supervised writing of a novel by each student. (F, Sp)

4563 Category Fiction (Slashlisted with 5563). Prerequisite: 3504 and 3514, or permission of instructor. May be repeated once with change of content; maximum credit six hours. In-depth study of current popular fiction genres and techniques used by category authors. Discussion of books in terms of fiction devices and application of such techniques to student's own work. No student may earn credit for both 4563 and 5563. (F)

4573 Theories of Professional Writing. Prerequisite: 4514 and senior standing. This is the senior capstone for the Professional Writing sequence. Study of significant theories of the writing process, the motivation to write, and intended effects of writing. Students will address aesthetics, philosophy and values relating to careers in writing. (Sp) [V]

4594 Writing the Commercial Nonfiction Book (Slashlisted with 5594). Prerequisite: 2033, 3504, and permission. May be repeated; maximum credit eight hours. Techniques, structure and elements of writing commercial nonfiction. Each student will work on an original book project and create a marketable proposal with a list of suitable markets. No student may earn credit for both 4594 and 5594. (F)

4613 Radio and Television Regulation (Slashlisted with 5613). Prerequisite: ninety hours including twelve hours of journalism and mass communication. Study and research of the various laws and rules, regulations and industry codes which affect the radio and television media, their history and development. No student may earn credit for both 4613 and 5613. (Irreg.)

4623 Remote-Based Production (Slashlisted with 5623). Prerequisite: 3462. Introduction to the techniques of multi-camera, on-location production. Preparation, practical, technical and theoretical issues regarding pre-production, production and directorial work for live television. No student may earn credit for both 4623 and 5623. (Sp)

4633 Advanced Video Production. Prerequisite: 2033, 3622, 3632, 3642, 3663. May be repeated once for credit. Advanced study of the technology, capabilities and utilization of the television medium. Units on aesthetics, lighting, visualization, picturization and the integration of sound and visual image. Intensive practice and skill development in television production techniques. Laboratory (F)

4643 Advanced Audio Production. Prerequisite: 3622, 3632. May be repeated once for credit. Advanced study of the technology, capabilities and utilization of audio media. Units on advanced audio techniques for radio, television and film. Intensive practice and skill development in audio production techniques. Laboratory (Irreg.)

4653 Current Issues in Broadcasting. Prerequisite: 1013, 2033, and 3683 or permission. Analysis of current trends, technology and the role of the broadcast media in society. No student may earn credit for both 4653 and 5653. (F, Sp)

4673 Advanced Broadcast News (Slashlisted with 5673). Prerequisite: 3773. Study of current requirements for and practice of public affairs programming, including news. Evolution of broadcast documentary form; writing, filming, editing techniques; budgeting and scheduling; actual preparation of public affairs programs of various types with emphasis on the extended-length news documentary. No student may earn credit for both 4673 and 5673. Laboratory (Sp)

4683 Interactive Multimedia Design (Slashlisted with 5683). Prerequisite: permission of instructor. Description and history of Interactive Multimedia. Explore current uses of these new technologies and receive instruction in practical application. Students conceive and design IAM programs, incorporating computer graphics, text, animation, audio and video. No student may earn credit for both 4683 and 5683. (F)

4693 Broadcast Management (Slashlisted with 5693). Prerequisite: 1013, 2033, 3683. Legal, economic and policy factors in station construction and operations management. No student may earn credit for both 4693 and 5693. (Irreg.)

4734 Film Script Writing. Prerequisite: 1013, 2033, 3504 and permission. Analysis of special problems involved in writing for the film medium in general and the factual film in particular. Instruction in special approaches and techniques useful in solving these problems. Supervised work on story treatment, sequence outlines, and shooting and narration scripts. (Sp) C4803 History of Journalism. Prerequisite: ninety hours, including twelve hours of journalism and mass communication. European background and development of the colonial press. Emergence of the partisan and penny newspapers. Evolution of both commercial and political newspapers. Major trends in printed and other communication media in the twentieth century. (F, Sp)

4813 Mass Communication Law. Prerequisite: ninety hours, including thirteen hours of journalism and mass communication. Capstone course for the “Journalism” sequence. Examines the principles by which the mass media exercise their public functions and fulfill the mission of the First Amendment. Areas studied include: the right to know, truth and fairness, responsibility, libel, privilege, fair comment, privacy, contempt, copyright, regulation of advertising and the rules, regulations and industry codes which affect the broadcast media. (F, Sp) [V]

4833 Journalism Ethics (Slashlisted with 5833). Prerequisite: twelve hours of journalism and mass communication. Press criticism; organizational performance; reportorial performance; print/broadcast distinctions. No student may earn credit for both 4833 and 5833. (F)

4843 Literature of Journalism (Slashlisted with 5843). Prerequisite: ninety hours, to include twelve in journalism, or permission of instructor. Reading and discussion of influential books about journalism and mass communication to expose students to the ideas of classic and contemporary writers and thinkers in the field. The course connects a journalism education to broader social science concepts in a manner that should stimulate critical thinking about the role of the media in American and international societies. No student may earn credit for both 4843 and 5843. (Irreg.)

4853 Race, Gender and the Media (Slashlisted with 5853). Prerequisite: junior standing. Survey of past and present relationships between women and racial and ethnic minorities in the U.S. and the media. Media portrayal, employment, ownership and access will be studied. No student may earn credit for both 4853 and 5853. (Sp)

4883 Newspaper Management (Slashlisted with 5883). Prerequisite: 2033 and senior standing. Organization and management of the modern newspaper. Problems and tradeoffs in the conduct of the newspaper business. Management problem-solving techniques, from the standpoint of publisher and chief operating officer. No student may earn credit for both 4883 and 5883. (Irreg.)

4970 Special Topics. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. Varied projects with experimental, innovative and creative approaches, to communicating through the mass media. (Irreg.)
Course Descriptions

G532 Advertising Account Planning (Slashlisted with 4323). Prerequisite: graduate standing. Discussion and practice of the advertising agency function of representing the target audience. Emphasis on learning to think like a consumer. Incorporates creativity, market research, consumer behavior and critical thinking to help in understanding target audiences. No student may earn credit for both 4323 and 5323. (F, Sp)

G533 Contemporary Problems in Advertising. Prerequisite: graduate standing and permission. Survey of contemporary problems in advertising; including current social and economic criticisms, legal and self-regulation problems, and agency and media-related problems. No student may earn credit for both 4333 and 5333. (F)

G423 Public Relations Case Studies (Slashlisted with 4423). Prerequisite: graduate standing and permission. To demonstrate how to apply public relations theory to a wide range of possible situations. Requires the student to adapt communications and PR models to a number of case studies and problems. No student may earn credit for both 4423 and 5423. (Irreg.)

G4433 Sports Public Relations (Slashlisted with 4433). Prerequisite: graduate standing. A study of public relations as it is practiced in the sports industry featuring guest and video presenters representing various sports publicity, promotion and public relations positions. Includes representatives of newspaper, television, and radio sports departments. No student may earn credit for both 4433 and 5433. (Irreg.)

G5443 Financial Public Relations (Slashlisted with 4443). Prerequisite: graduate standing and permission. Instruction and practice designed to develop an understanding of the investor relations function in public relations activity for corporations. Study of the stock market, the roles of principal players on Wall Street and relevant regulatory powers. Analysis of annual reports and how they are produced as well as financial statements and communication efforts aimed at investors and the news media. No student may earn credit for both 4443 and 5443. (Irreg.)

G453 Public Relations Research (Slashlisted with 4453). Prerequisite: graduate standing and permission. To build skills in the use of various public relations research methodologies available for exploratory, evaluation and management assessment of programs. No student may earn credit for both 4453 and 5453. (Sp)

G503 Tutorial in Writing (Slashlisted with 4503). Prerequisite: graduate standing and permission. May be repeated once; maximum credit six hours. Individual conferences devoted entirely to preparation, criticism, editing and preparation for marketing of the student's original manuscript, both fiction and non-fiction. No student may earn credit for both 4503 and 503. (F, Sp)

G5314 Writing the Novel–Graduate. Prerequisite: graduate standing and permission. May be repeated; maximum credit eight hours. Analysis of the concepts, principles and practical creative problems involved in writing novels. Instruction in specific approaches and techniques useful in plotting, characterization, setting, scene, etc. Supervised writing of a novel by each student. (F, Sp)

G553 Contemporary Problems in Professional Writing. Prerequisite: eight hours in professional writing or equivalent, graduate standing. May be repeated once for credit with change in content. Extensive study of specific trends, shifts in public taste, and technical devices used by the authors. Discussion of books in terms of specific technical devices and how they can be used in the student's own work. (F)

G563 Category Fiction (Slashlisted with 4563). Prerequisite: graduate standing and permission. May be repeated once with change of content; maximum credit six hours. In-depth study of current popular fiction genres and techniques used by category authors. Discussion of books in terms of fiction devices and application of such techniques to student's own work. No student may earn credit for both 4563 and 5563. (F)

G570 Special Topics in Professional Writing, 1 to 3 hours. Prerequisite: graduate standing. May be repeated with change of subject matter; maximum credit nine hours. Variable topics related to theory and practice of fiction, nonfiction and dramatic writing. (Irreg.)

G594 Writing the Commercial Nonfiction Book (Slashlisted with 4594). Prerequisite: graduate standing and permission. May be repeated; maximum credit eight hours. Techniques, structure and elements of writing commercial nonfiction. Each student will work on an original book project and create a submittable book proposal with a list of suitable markets. No student may earn credit for both 4594 and 5594. (F)

G613 Radio and Television Regulation (Slashlisted with 4613). Prerequisite: graduate standing and permission. Study and research of the various laws and rules, regulations and industry codes which affect the radio and television media; their history and development. No student may earn credit for both 4613 and 5613. (Irreg.)
G5623 Remote-Based Production (Slashlisted with 4623). Prerequisite: graduate standing, and 3642 or permission of instructor. Introduction to the techniques of multi-camera, on-location production. Preparatory, practical, technical and theoretical issues regarding pre-production, production and directorial work for live television. No student may earn credit for both 4623 and 562623. (Sp)

G5673 Advanced Broadcast News (Slashlisted with 4673). Prerequisite: graduate standing and permission. Study of current requirements for and practice of public affairs programming, including news. Evolution of broadcast documentary form; writing, filming, editing techniques; budgeting and scheduling; actual preparation of public affairs programs of various types with emphasis on the extended-length news documentary. No student may earn credit for both 4673 and 5673. Laboratory (Sp)

G5683 Interactive Multimedia Design (Slashlisted with 4683). Prerequisite: permission of instructor. Description and history of Interactive Multimedia. Explore current uses of these new technologies and receive instruction in practical application. Students conceive and design IAM programs, incorporating computer graphics, text, animation, audio and video. No student may earn credit for both 4683 and 5683. (F)

G5693 Broadcast Management (Slashlisted with 4693). Prerequisite: 5013, graduate standing and permission of instructor. Legal, economic and policy factors in station construction and operations management. No student may earn credit for both 4693 and 5693. (Irreg.)

G5734 Writing the Screenplay. Prerequisite: graduate standing and permission. May be repeated; maximum credit eight hours. Analysis of the formal narrative structure of the narrative screenplay. Specific approaches and techniques useful in developing plotting, characterization, setting, scene, etc. Supervised writing of feature-length screenplay by each student. (Sp)

G5833 Journalism Ethics (Slashlisted with 4833). Prerequisite: graduate standing and permission. Press criticism; organizational performance; reportorial performance; print/broadcast distinctions. No student may earn credit for both 4833 and 5833. (F)

G5843 Literature of Journalism (Slashlisted with 4843). Prerequisite: graduate standing and permission. Reading and discussion of influential books about journalism and mass communication to expose students to the ideas of classic and contemporary writers and thinkers in the field. The course connects a journalism education to broader social science concepts in a manner that should stimulate critical thinking about the role of the media in American and international societies. No student may earn credit for both 4843 and 5843. (Irreg.)

G5853 Race, Gender and the Media (Slashlisted with 4853). Prerequisite: graduate standing and permission. Survey of past and present relationships between women and racial and ethnic minorities in the U.S. and the media. Media portrayal, employment, ownership and access will be studied. No student may earn credit for both 4853 and 5853. (Sp)

G5880 Graduate Project. 2 to 4 hours. Prerequisite: graduate standing in journalism and mass communication. For students electing the project track (nonthesis track). Students will develop, under their project committee's direction, a creative or professional project, such as a novel, a film, an advertising or public relations campaign, or a management plan for a media-related organization. (F, Sp, Su)

G5883 Newspaper Management (Slashlisted with 4883). Prerequisite: 5013 and graduate standing. Organization and management of the modern newspaper. Problems and tradeoffs in the conduct of the newspaper business. Management problem-solving techniques, from standpoint of publisher and chief operating officer. No student may earn credit for both 4883 and 5883. (Irreg.)

G5970 Seminar. 1 to 3 hours. May be repeated with change of subject matter; maximum credit twelve hours. Methods of research. Selection, evaluation and development of research problems. (Irreg.)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Independent Study. 1 to 3 hours. Prerequisite: graduate standing; permission of instructor. May be repeated with change of subject matter; maximum credit six hours. (F, Sp, Su)

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**Landscape Architecture (L A)**

G4033 Project Documents (Crosslisted with Architecture 4033). Prerequisite: Architecture 4575 or permission of CNS 4923. An introduction to the building construction and architectural project manual with emphasis on owner/contractor relationships. (Sp)

G5033 Design Theory and Criticism (Crosslisted with Architecture 5033). Prerequisite: graduate standing or permission of instructor. Historical and contemporary topics in design goals, concepts, theories and philosophies. (Sp)

G5052 Professional Practice (Crosslisted with Architecture 5052). Prerequisite: 5043 or permission of instructor. Survey of career options, internship, registration, firm organization, office management, professional conduct and ethics within the practice of architecture. (Sp)

G5243 Landscape Architecture Technology: Materials and Construction. Prerequisite: graduate standing and permission of instructor. Technical requirements and design characteristics of landscape construction materials. Brick, concrete, asphalt, stone, wood, paving curbs, walls, steps, small structures, site furnishings, lighting, and basic construction documentation. Laboratory (F)

G5343 Landscape Architecture Technology: Site Issues. Prerequisite: graduate standing and permission of instructor. Technical aspects of land and water interactions in site planning and landscape engineering. Introduction to contours, grading and earthwork; watershed and site drainage; horizontal and vertical curves; erosion control and sedimentation. Laboratory (Sp)

G5403 Research Methods in Landscape Architecture. Prerequisite: graduate standing or permission of instructor. Introduces basic research methods applicable to landscape architecture. (F)

G5513 Landscape Architecture Drawing and Graphics. Prerequisite: graduate standing and permission of instructor. Basic techniques for visual thinking/seeing and basic graphic techniques for two- and three-dimensional representation. Different methods of communication such as sketching, diagramming, plan, section and elevation drawing, rendering, one and two point perspective, and axonometric drawing for layout and composition. (F)

G5515 Landscape Architecture Introductory Graduate Studio I. Prerequisite: graduate standing and permission of the instructor. Small-scale problems in landscape architecture with particular emphasis on principles and elements of design, design of individual sites, design as a process including communication of site analysis, design, development and final design proposals. (F)

G5525 Landscape Architecture Introductory Graduate Studio II. Prerequisite: graduate standing and permission of instructor. Introduction to site planning at small to medium scales with particular emphasis on design process where consideration of natural and human factors influence design solutions. Subject matter varies and is reflective of a host of problems and issues common to landscape architecture. (Sp)

G5535 Landscape Architecture Intermediate Graduate Studio III. Prerequisite: 5515, 5525, graduate standing, and permission of instructor. Studio work concerned with park, recreation, and open space issues pertinent to contemporary needs. Subject matter may include park typologies and their design, recreation typologies, public education, greenways, scenic byways, eco-tourism, schools, and community gardens. (F)

G5545 Landscape Architecture Intermediate Graduate Studio IV. Prerequisite: 5515, 5525, graduate standing, and permission of instructor. Focus on housing and community planning as related to site planning and site design with particular emphasis on urban environments, housing typologies, community participation, community facilities, and the landscape architect's approach to the development of green space systems within urban and rural contexts. (Sp)

G5555 Landscape Architecture Advanced Graduate Studio V. Prerequisite: 5515, 5525, 5535, 5545, graduate standing, and permission of instructor. Theoretical and essential processes common to developments in regenerative design and planning as related to sustaining health human and natural environments. Optional emphasis is placed upon inventory and analysis at the regional scale in which geographic land units such as watersheds, mountain ranges, islands, towns, cities, major neighborhoods, or urban districts are common subject matter. (F)
Latin (LAT)

1115 Beginning Latin. Introductory study of the vocabulary and grammar of the Latin language, with practice in the reading of sentences and connected prose from selected Latin authors. (F, Sp) [I-FL]

1215 Beginning Latin. Prerequisite: 1115, or the equivalent, with a grade of C or better. Introductory study of the vocabulary and grammar of the Latin language, with practice in the reading of sentences and connected prose from selected Latin authors. (F, Sp) [I-FL]

1315 Introductory Latin. Prerequisite: permission of Honors Program. Alternative to the Latin 1115 and 1215 introductory sequence. Covers in one semester the essentials of the material in Latin 1115 and 1215. Students who have completed 1115 and 1215 may not enroll in 1315. (F, Sp) [I-FL]

2113 Intermediate Prose: Cicero, Livy, Pliny, Seneca. Prerequisite: 1215, or equivalent, with a grade of C or better. May be repeated with change of subject; maximum credit six hours. Reading designed mainly to increase the student’s proficiency in rapid translation, in excerpts from the prose writings of major Latin authors. (F, Sp)

2213 Intermediate Poetry. Prerequisite: 1215, or equivalent, with a grade of C or better. Reading selections from the major Latin poets; designed to improve the student’s proficiency in translation and the understanding of Latin poetic technique. (F, Sp)

2313 Latin Composition. Prerequisite: 1215, or the equivalent, with a grade of C or better. Composition and translation designed to provide a systematic review of grammar and improve control in writing Latin.

The prerequisite for 3000-level courses is one 2000-level course or the equivalent.

3113 Advanced Prose. May be repeated with change of subject matter; maximum credit six hours. Readings from the works of major Latin prose authors. (Irreg.)

3213 Advanced Poetry. May be repeated with change of subject matter; maximum credit six hours. Selected readings from the works of the major Latin poets. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics determined by the instructor in consultation with the student in the context of the major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered vary. The content will deal with concepts not usually presented in regular coursework. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp)

4133 Historians: Livy, Tacitus, Caesar, Sallust (Slashlisted with 5133). May be repeated with change of subject matter; maximum credit nine hours. Introductory course in Roman history. Readings chosen to present memorable persons and episodes in the ascendency of the Republic, the critical issues of the Civil Wars, and the social and political background of the Empire. No student may earn credit for both 4133 and 5133. (Irreg.)

4213 Horace. May be repeated with change of subject matter; maximum credit six hours. Readings in the odes and epodes, with metrical analysis and explication. Biographical and historical aspects of the poems. Horace’s place in the lyric tradition. (Irreg.)

4313 The Teaching of Latin. Investigation of recurrent problems in Latin pedagogy; aims, traditional and experimental methods, evaluation and choice of texts, instructional aids and special problems in phonology and syntax. (F, Sp)

4503 Latin Capstone Course. Prerequisite: senior standing in major. Students work on an individual basis in conjunction with a Classics faculty member and write a senior paper on a topic to be chosen in consultation with the faculty member. The paper must demonstrate a comprehensive understanding of the Latin language and of one of the major areas of Greco-Roman civilization. (V)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

5000-level courses are open to graduate students.

5133 Historians: Livy, Tacitus, Caesar, Sallust (Slashlisted with 4133). May be repeated with change of subject matter; maximum credit nine hours. Introductory course in Roman history. Readings chosen to present memorable persons and episodes in the ascendency of the Republic, the critical issues of the Civil Wars, and the social and political background of the Empire. No student may earn credit for both 4133 and 5133. (Irreg.)

5213 Intermediate Poetry. Prerequisite: 1215, or equivalent, with a grade of C or better. Reading selections from the major Latin poets; designed to improve the student’s proficiency in translation and the understanding of Latin poetic technique. (F, Sp)

5313 Latin Composition. Prerequisite: 1215, or the equivalent, with a grade of C or better. Composition and translation designed to provide a systematic review of grammar and improve control in writing Latin.

The prerequisite for 4000-level courses is one 3000-level course or the equivalent.

4133 Historians: Livy, Tacitus, Caesar, Sallust (Slashlisted with 5133). May be repeated with change of subject matter; maximum credit nine hours. Introductory course in Roman history. Readings chosen to present memorable persons and episodes in the ascendency of the Republic, the critical issues of the Civil Wars, and the social and political background of the Empire. No student may earn credit for both 4133 and 5133. (Irreg.)

5213 Intermediate Poetry. Prerequisite: 1215, or equivalent, with a grade of C or better. Reading selections from the major Latin poets; designed to improve the student’s proficiency in translation and the understanding of Latin poetic technique. (F, Sp)

5313 Latin Composition. Prerequisite: 1215, or the equivalent, with a grade of C or better. Composition and translation designed to provide a systematic review of grammar and improve control in writing Latin.

The prerequisite for 4000-level courses is one 3000-level course or the equivalent.

3003 Introduction to Law and Legal Reasoning. Prerequisite: junior standing or permission of department. An introduction to Anglo-American law,
emphasizing Anglo-American legal history, comparative legal systems, the interdisciplinary nature of law, and critical legal reasoning. [IV-WC]

3323 Legal Environment of Business. Prerequisite: junior standing. The legal environment of business organizations with ethical considerations and the social and political influences affecting such environments. (F, Sp, Su)

4113 The Law of Employment. Prerequisite: 3323. Overview of the legal, ethical, social, and political issues associated with the employer-employee relationship. Topics include employment and employment-like relationships, all-employees employment and exceptions; workers’ compensation; employment, privacy, employee disabilities, and equal employment opportunity. (Sp)

G4413 The Law of Business Organizations. Prerequisite: 3323. Law and the form of the business unit; formation, promotion, and organization; financing, devices for raising capital, inducements of investors; management of the business unit, keeping the unit within the powers; distribution of the powers; duties of members and representatives in management; responsibility for torts and crimes; adjustment of the rights of creditors; dissolution of the business unit. (F, Sp, Su)

G4523 The Law of Commercial Transactions. Prerequisite: 3323. A comprehensive survey of commercial transactions, including the law of sales, warranties, risk of loss, negotiable instruments, bank collections and deposits, electronic fund transfers, secured transactions and bankruptcy. (F)

G4613 Real Property Law. Prerequisite: 3323. General law of real property; historical development, acquisition of title to personal property, estates in land, landlord and tenant relations, easements, deeds, mortgages, adverse possession, wills and trusts. (F, Sp)

4710 Special Topics in Legal Studies. 1 to 6 hours. Prerequisite: 3323 or permission. May be repeated with change of subject matter.

4713 The Law of International Business Transactions. Prerequisite: 3323. Examines the legal and ethical environment of international business. Topics include international treaties and conventions; comparative legal systems; extraterritoriality of U.S. and foreign laws, the Act of State Doctrine and the resolution of international business disputes.

4813 International Petroleum Transactions. Prerequisite: 3323, 4523, 4613, Petroleum Engineering 4103, senior standing, Energy Management major, and permission. The international oil and gas business covering: the sovereign rights to minerals; how crude oil is bought and sold on the world market; various types of host government contracts to assign development rights to private companies; how disputes between a private company and host government are resolved; contracts between private companies engaged in exploration and production operations. (Irreg.)

4821 Oil and Gas Contracts and Tax. Prerequisite: 3323, 4523, 4613, Petroleum Engineering 4103, and senior standing. Examination of contracts for the oil and gas industry. Covers exploration, production and development of oil and gas properties, investments, relationships created by such contracts, rights and duties of the parties, income tax consequences, and governmental regulation. (Irreg.)

G5323 The Legal and Regulatory Environment of Business. Prerequisite: graduate standing. A survey of the basic framework of the American and international legal systems, with particular emphasis on the common law, comparative law, courts, civil procedure, constitutional law, administrative regulation, topics in business law, and the regulatory environment. Examines the ethical issues confronting business managers and provides a systematic method for recognizing and resolving these issues. (F, Sp)

G5523 Contemporary Commercial Law. Prerequisite: 5323, graduate standing. Examines the current state of commercial law in the U.S., with particular emphasis on the Uniform Commercial Code (sales, negotiable instruments, letters of credit and secured transactions) and the Federal Bankruptcy Act. (Su)

G5713 International Business Law. Prerequisite: 5323. Study of international and domestic regulations affecting multi-national enterprises and international business transactions. Examines and compares inter-governmental organizations, world legal systems, business structures, and regulatory and tax systems, and provides students with practical legal knowledge of how international transactions are carried out. (F)

G5970 Topics in Legal Studies. 1 to 6 hours. Prerequisite: 5323 or permission. May be repeated with change of subject matter.

Letters (LTRS)

3003 The American Novel as Social History. Prerequisite: junior standing or permission of instructor. Main currents of social development from the mid-nineteenth century as reflected in literature. The course integrates changes as historians approach them with responses to change as writers record them. Topics included the anti-slavery impulse, the Civil War, urbanization, race relations, and the impact of modern war and consumerism. (Irreg.) [IV-WC]

3013 Documentary Oklahoma. Prerequisite: junior standing or permission of instructor. The means whereby Oklahoma’s history and culture have been documented through literature, film, photography, and both oral and written memoirs. Particular emphasis is given both to the diversity of the state’s cultural heritage and to its image as reflected in national media. (Irreg.) [IV-WC]

3023 Classical Italy and Umbria. Prerequisite: 45 hours and permission of instructor; priority enrollment will be given to those students participating in the Peruqia program. An introductory survey of the evolution of Italy from the pre-Roman Italic and non-Italic peoples and civilizations through the Roman era, papal rule, the Renaissance, Spanish and French domination, and ultimate unification into a modern country. Because of the tremendous influence of ancient Rome on Italy, more time will be spent on the Roman era than any other. Course consists of internet research on selected and chronological topics followed by essays and class discussion using internet technologies. (Su)

4003 Life and Letters in the American South. Prerequisite: junior standing or permission of instructor. An examination of social change and the literature that reflects it in the American south since the Civil War. Topics include the evolution of southern race relations, forms and expressions of political power, and the south’s place in defining an overall American culture. (Irreg.)

4013 Literary and Cinematic Explorations of Power. Prerequisite: junior standing or permission of instructor. Examines ways in which American writers and film makers have addressed power relationships in the century. pairing particularly insightful novels with significant motion pictures, topics include black-white relations, immigration, gender roles in transitional societies, class and dispossession, military power, and the ethics of political power. (Irreg.)

4503 Letters Capstone Course. Prerequisite: senior standing in major. Students write a senior paper on a topic chosen in consultation with the instructor. Papers will demonstrate students’ abilities to synthesize material drawn from among two or more of the areas included in the Letters program. [V]

Liberal Studies (LSTD)

1003 Intro to Interdisciplinary Study. An introductory study of the concepts and practices of interdisciplinary inquiry, writing, critical thinking and problem solving across disciplines, and techniques for solving problems and writing papers from an interdisciplinary perspective. (F, Sp, Su)

1210 Humanities Independent Study. 0 to 15 hours. An interdisciplinary approach to study in the humanities available through directed independent study or internet courses.

1213 Creativity in the Arts. Students will learn about the literary, visual and performance arts by viewing, reading and listening to some of the most famous examples of the arts. Students will also learn about the creative process through the production of their own art. (F, Sp, Su)

1223 A History of the United States. A general historical overview of the United States with a particular focus on the role that the humanities played in shaping this country. (F, Sp, Su)

1230 Humanities Seminar. 0 to 15 hours. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic within the humanities. The seminar is taught by one or more faculty members from the humanities area.

1310 Social Sciences Independent Study. 0 to 15 hours. An interdisciplinary approach to study in the social sciences available through directed independent study or internet courses.

1313 What in the World are the Social Sciences? Discusses what comprises the social sciences and how we perform research in the different areas, including addressing ethical questions. (F, Sp, Su)

1323 Governing Ourselves. An analysis of the differing ideologies governing autocratic vs. democratic systems of government, the structure of the United States government, and the role of extra-governmental elements such as lobbyists and the press on the process of governing. (F, Sp, Su)

1330 Social Sciences Seminar. 0 to 15 hours. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic within the social sciences. The seminar is taught by one or more faculty members from the social sciences.

1410 Natural Sciences Independent Study. 0 to 15 hours. An interdisciplinary approach to study in the natural sciences available through directed independent study or internet courses. Includes some laboratory learning experiences. (F, Sp, Su)
1413 Mathematics in Liberal Studies. Designed to enhance the student’s ability to utilize mathematical tools in their daily lives. Covers such topics as use of statistics, evaluating others’ use of statistics, mathematics in finance, and use of exponents and logarithms in scientific calculations. (F, Sp, Su)

1423 Introduction to Interdisciplinary Physical Sciences. Emphasis on physics and chemistry, including topics such as the laws of motion, elements of thermodynamics, wave forms and properties, structure of atoms, and the formation of chemical bonds. (F, Sp, Su)

1430 Natural Sciences Seminar. 0 to 15 hours. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic within the natural sciences. The seminar is taught by one or more faculty members from the natural sciences area.

2210 Humanities Independent Study. 0 to 15 hours. An interdisciplinary approach to study in the humanities available through directed independent study or internet courses.

2213 Humanistic Tradition: Prehistory through Renaissance. An overview of the humanities from a historical perspective. Emphasis will be placed on what the humanities mean and why they are important. This course is the foundation for all subsequent interdisciplinary study of the humanities in the BLS programs. (F, Sp, Su)

2220 Issues in Humanities. 1 to 6 hours. May be repeated with change of content; maximum credit twelve hours. Specific course content will be defined each time the course is offered. A problem-oriented approach to issues in humanities, employing an interdisciplinary approach.

2223 The Humanistic Tradition: Renaissance–Modern World. An overview of the humanities from a historical perspective. Emphasis will be placed on what the humanities mean and why they are important. This course is the second part of the foundation for all subsequent interdisciplinary study of the humanities in the BLS programs. (F, Sp, Su)

2230 Humanities Seminar. 0 to 15 hours. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic within the humanities. The seminar is taught by one or more faculty members from the humanities area. (Irreg)

2310 Social Sciences Independent Study. 0 to 15 hours. An interdisciplinary approach to study in the social sciences available through directed independent study or internet courses. (F, Sp, Su)

2313 The Human Experience: The Role of Culture. A critical discussion of prejudice, discrimination, gender identity and crime and deviance from the perspective of the social sciences. (F, Sp, Su)

2320 Issues in Social Sciences. 1 to 6 hours. May be repeated with change of content; maximum credit twelve hours. A problem-oriented approach to issues in social sciences, employing an interdisciplinary approach. Specific course content will be defined each time the course is offered.

2323 Human Groups and Distribution of Resources. A study of culture from a social sciences perspective, including investigating topics such as ethnocentrism, cultural relativism and personal identity within the context of being American. (F, Sp, Su)

2330 Social Sciences Seminar. 0 to 15 hours. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic within the social sciences. The seminar is taught by one or more faculty members from the social sciences area. (Irreg)

2410 Natural Sciences Independent Study. 0 to 15 hours. An interdisciplinary approach to study in the natural sciences available through directed independent study or internet courses. This course includes some laboratory learning experiences. (F, Sp, Su)

2413 Interdisciplinary Life Sciences. A study of the integration of biological systems at the cellular level. It includes discussions of metabolism, chromosome structure and function and the structure and function of the DNA molecule. (F, Sp, Su)

2420 Issues in Natural Sciences. 1 to 6 hours. May be repeated with change of content; maximum credit twelve hours. Specific course content will be defined each time the course is offered. A problem-oriented approach to issues in natural sciences, employing an interdisciplinary approach.

2423 Science as a Process. Analysis and criticism of the scientific method, design of experiments and collection and interpretation of data in scientific investigation. (F, Sp, Su)

2430 Natural Sciences Seminar. 0 to 15 hours. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic within the natural sciences. The seminar is taught by one or more faculty members from the natural sciences area. (Irreg)

2700 Special Topics in Liberal Studies. May be repeated with change of content; maximum of nine credit hours. Specific course content will be defined each time the course is offered. A problem-oriented approach to interdisciplinary studies. Reading and research, arranged and directed in consultation with the instructor, in specified areas of liberal studies. (F, Sp, Su)

2750 Interdisciplinary Seminar. May be repeated with change of content; maximum credit 12 hours. An intensive seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic in interdisciplinary studies. (F, Sp, Su)

2800 Investigative Studies in Liberal Studies. May be repeated with change of content; maximum of nine credit hours. Investigation in problems not covered in existing courses and utilizing an interdisciplinary approach to problem-oriented studies. Will culminate in a written report of investigation. Specific course content will be defined each time the course is offered. Reading and research, arranged and directed in consultation with the instructor, in specified areas of liberal studies. (F, Sp, Su)

3210 Interdisciplinary Study in the Humanities. 0 to 15 hours. Prerequisite: 1213, 1223, or equivalent. An interdisciplinary approach to study in the humanities available through directed independent study, internet courses, or weekend classes. Classes include team project assignments that are planned and guided by a professor from the humanities area. (Irreg)

3223 Renaissance Art. Prerequisite: 1213, 1223, or equivalent. A critical discussion of the art of the Italian Renaissance. The focus of this course will be on explicating religious textual narratives and exploring how artists translated these ideas into visual form to create an effective message. The course will deal with painting, sculpture and architecture and will highlight well-known artists. (F, Sp, Su)

3230 Comprehensive Humanities Seminar. 0 to 15 hours. Prerequisite: 3502 or equivalent. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic in the humanities. The seminar is taught by one or more faculty members from the humanities area. (Irreg)

3233 Special Topics in the Humanities of the Ancient World. Prerequisite: 1213, 1223, or equivalent. Students will explore a broad variety of cultural themes found concurrently in both western and non-western cultures from Antiquity through the Middle Ages. (F, Sp, Su)

3243 Special Topics in the Humanities of the Modern World. Prerequisite: 1213, 1223, or equivalent. Students will explore a broad variety of cultural themes found concurrently in both western and non-western cultures from the Renaissance through the Enlightenment and into the Modern World. (F, Sp, Su)

3253 Foundations of Ethics in Liberal Studies. Prerequisite: 1213, 1223, or equivalent. A foundation for the scholarly research and discussion of ethics. Topics will include historical and philosophical grounding in the consideration of ethics. The course will utilize an interdisciplinary approach to the inquiry of ethics. (F, Sp, Su)

3310 Interdisciplinary Study in the Social Sciences. 0 to 15 hours. Prerequisite: 3502 or equivalent. An interdisciplinary approach to study in the social sciences available through independent study, internet courses, or weekend classes. Classes include team project assignments that are planned and guided by a professor from the social sciences area. (Irreg)

3330 Comprehensive Social Sciences Seminar. 0 to 15 hours. Prerequisite: 3502 or equivalent. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic in the social sciences. The seminar is taught by one or more faculty members from the social sciences area. (Irreg)

3333 Human Arrangements: Troubled Institutions, Problems of Inequalities. Prerequisite: 1313, 1323, or equivalent. Issues affecting institutions from family through the national population, including health care, education, the economy, and the interaction of government with all such questions. Problems arising from inequality among groups in the society, including poverty, elderly and young, minority and majority, and gender concerns. (F, Sp, Su)

3343 Challenges in a Changing World. Prerequisite: 1313, 1323, or equivalent. Conformity and deviance in societies. Topics addressed include sexual behavior, drug use and crime and violence. It also looks at social problems expressed on a broader scale, including those associated with increased problems and associated urbanization and the outbreaks of wars, terrorism and international conflict arising from inequalities occurring on an international scale. (F, Sp, Su)

3353 Women and Consumer Culture. Prerequisite: 1313, 1323, or equivalent. Analysis of the relationship of women to consumption and consumer culture. At the end of the course, students will be able to take a position and defend it with respect to various controversial arguments or ideas about women’s relationship to consumption and consumer culture. (F, Sp, Su)

3363 Ethics in Social Sciences. Prerequisite: 1313, 1323, or equivalent. Concepts, principles and case studies involved in ethics in the social sciences, with a particular emphasis on business ethics. Students will examine core
values in light of social conditioning, short-term profit-seeking and the need for affiliation. (F, Sp, Su)

3410 Interdisciplinary Study in the Natural Sciences. 0 to 15 hours. Prerequisite: 3502 or equivalent. An interdisciplinary approach to study in the natural sciences available through independent study, internet courses, or weekend classes. Classes include team project assignments that are planned and guided by a professor from the natural sciences. (F, Sp, Su)

3423 Chemistry for Changing Times. Prerequisite: 1413, 1423, or equivalent. An overview of chemistry, with fundamentals and organic processes explained. The course investigates chemicals found in everyday life and on the earth with the aim of understanding how chemical processes are at work, both in the environment around us and in energy, air, water, biochemistry, drugs, poisons and chemicals. It is ideal for the generalist and the interdisciplinary student, although it also provides excellent material for specialists. (F, Sp, Su)

3430 Natural Sciences Seminar. 0 to 15 hours. Prerequisite: 3502 or equivalent. An intensive, full-time seminar concerned with the organization and interrelatedness of knowledge around a central theme, problem or topic in the natural sciences. The seminar is taught by one or more faculty members from the natural sciences area. (Irreg)

3433 The Dynamic Universe. Prerequisite: 1413, 1423, or equivalent. Select topics including the Big Bang, formation of matter and its association into stars and planets, plate tectonics and the physics and chemistry of the atmosphere. (F, Sp, Su)

3443 Ecology and Evolution. Prerequisite: 1413, 1423, or equivalent. A study of the interactions of genetic change in organisms with environmental stress, and contributions of these interactions to evolution. (F, Sp, Su)

3453 Physics for Poets…Fundamentals of Physics. Prerequisite: 1413, 1423, or equivalent. The goal of this course is to introduce non-science students to the conceptual development and philosophical implications of some aspects of physics with a minimum amount of mathematics. The topics covered in this course will include motion, energy conservation laws, electricity, optics, atoms, the nucleus, special relativity, and elementary particles. A solid foundation in high school algebra is required for entry into this course. (F, Sp, Su)

3502 Introductory Seminar. Prerequisite: admission to the Bachelor of Liberal Studies degree program. An interdisciplinary introduction to liberal inquiry. Problems of epistemology and methodology in the humanities, social sciences and natural sciences are interrelated. (F, Sp, Su)

3503 Interdisciplinary Inquiry. Prerequisite: junior standing or permission. Will focus on adult learning theory and development, assessment of prior learning, development of self-directed learning skills, educational and career planning and writing of portfolios and learning contracts. Designed for the returning, adult learner. Will also focus on preparation for academic writing and argumentation. (F, Sp, Su)

3530 Comprehensive Area Seminar. 15 hours equivalence. Prerequisite: completion of the Comprehensive Area independent study. An intensive three-week seminar for relating concepts of the areas of the humanities, the social sciences and the natural sciences to a central theme, problem or topic. The seminar is directed by one faculty member who is joined each week by a different faculty member from a discipline in each of the separate areas.

3613 Leadership in Organizations. Prerequisite: 1213, 1313, or equivalent. The general purpose of this course is to learn about contemporary thinking regarding leadership in organizations and the applications of these insights for growth as a leader. (F, Sp, Su)

3623 Conflict Resolution. Prerequisite: 1213, 1313, or equivalent. This course reviews several contemporary theories of the nature of conflict and how best to manage it. Students will examine the communication process and will practice effective communication skills through exercise. (F, Sp, Su)

3663 Ethics in Leadership. Prerequisite: 1213, 1313, or equivalent. This course will explore various concepts, principles and case studies involved in ethics in the social science with a particular emphasis on business ethics. Students will examine core values in light of social conditioning, short-term profit-seeking, and the need for affiliation. (F, Sp, Su)

3953 Study in Depth Prospectus. Prerequisite: 1213, 1313, 1413, or equivalent. This course helps prepare the student for the senior capstone study in depth paper. Content will focus on upper division level writing, research and argumentation. (F, Sp, Su)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major. The topics will cover materials not usually presented in the regular courses. (Irreg)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted Honors’ candidate to work on a special project under the guidance of a professor in the student’s field. (Irreg)

4213 A Critical Review of the Bible as a Literary Work. Prerequisite: 1213, 2213, or equivalent. Examines the Bible as a work of literature, approaching it without concern for the doctrines of any particular religion. The aim of the course is to make students biblically familiar with both the Old and New Testaments. (F, Sp, Su)

4233 Personal and Family Narratives. Prerequisite: 1213, 2213, or equivalent. Offers students ways of exploring their own or their family’s past with larger cultural and historical contexts. (F, Sp, Su)

4243 Road Trip of the Mind. Prerequisite: 1213, 2213, or equivalent. Various points of view and mindsets in the global community with an end to developing writing skills, enhancing creative problem-solving abilities, improving an understanding of cultural diversity and conflict resolution, and enhancing awareness of how values, ethical positions, perspectives manifest themselves and how they evolve over time. (F, Sp, Su)

4253 Culture and Science. Prerequisite: 1213, 2213, or equivalent. The history of the relations between science and culture in the last two centuries. Students will learn more about the methods and procedures of science, and the way science has been perceived and misperceived in the modern world. (F, Sp, Su)

4263 Environment and Philosophy. Prerequisite: 1213, 2213, or equivalent. Philosophical arguments and considerations of environmental policy and practice in the modern world. Students will become conversant in the issues and concerns of environmental conservation and ecology. (F, Sp, Su)

4290 Special Problems in Humanities. 1 to 6 hours. Prerequisite: permission of instructor and dean. May be repeated with change of content; maximum credit twelve hours. Investigation into problems not covered in existing courses and utilizing an interdisciplinary approach in the humanities. Will culminate in a written report of investigation. Specific course content will be defined each time the course is offered.

4323 History of Slavery. Prerequisite: 1313, 2313, or equivalent. A discussion of slavery as it has occurred and is occurring in various civilizations, from the ancient world to modern times. The goal of the course is to increase familiarity with the brutal history of bondage and to build skills in analyzing past events, especially through writing, and to gain an understanding of the basic methods employed in historical research. (F, Sp, Su)

4390 Special Problems in Social Sciences. 1 to 6 hours. Prerequisite: permission of instructor and dean. May be repeated with change of content; maximum credit twelve hours. Investigation into problems not covered in existing courses and utilizing an interdisciplinary approach in the social sciences. Will culminate in a written report of investigation. Specific course content will be defined each time the course is offered.

4433 Satellite Imagery. Prerequisite: 1413, 2413, or equivalent. Fundamentals of satellite imagery, as well as how to process data. Students will learn basic methods of spectral processing and the ideas behind the conversion of spectral digital information into color-keyed information sets. (F, Sp, Su)

4443 Earth’s Climate. Prerequisite: 1413, 2413, or equivalent. This course explores the way climate changes over time. Students will focus on the greenhouse effect, pangaea, the different ice ages, and the snowball earth hypothesis. (F, Sp, Su)

4490 Special Problems in Natural Sciences. 1 to 6 hours. Prerequisite: permission of instructor and dean. May be repeated with change of content; maximum credit twelve hours. Investigation into problems not covered in existing courses and utilizing an interdisciplinary approach in the natural sciences. Will culminate in a written report of investigation. Specific course content will be defined each time the course is offered.

4510 Inter-Area Studies. 0 to 15 hours. Prerequisite: 3502 or equivalent. This course serves to integrate knowledge the student has gained by studying in the three previous study areas: humanities, social sciences and natural sciences. The course places emphasis on the integration of the three areas and the contributions all the areas can make toward the understanding of relevant problems. Students use every background resource they have acquired to illuminate, judge and criticize their current study assignment. This course is available through independent study, internet courses, or weekend classes. Classes include team projects. (Irreg)

4530 Inter-Area Seminar. 0 to 15 hours. Prerequisite: completion of three prior areas of interdisciplinary study or permission of the dean. An intensive, full-time seminar concerned with the integration of subject matter from all three areas and the application of this knowledge to a broad theme or problem. (Irreg)

45490 Special Problems in Integrative Studies. 1 to 6 hours. Prerequisite: permission of instructor and dean. May be repeated with change of content; maximum credit twelve hours. Investigation in problems not covered in existing courses and utilizing an interdisciplinary approach to problem-oriented studies. Will culminate in a written report of investigation. Specific course content will be defined each time the course is offered.
4633 Cultural Diversity in the World. Prerequisite: 1213, 1313, 2313, or equivalent. At the end of this course, the learner will be able to apply an in-depth understanding of cultural diversity to issues in human relations and in achieving true diversity in organizations. The course will provide learners with a conceptual framework from which to analyze historical and current legal approaches to cultural diversity, with an emphasis on gaining an understanding of how and why affirmative action programs are implemented. (F, Sp, Su)

4643 Quality Initiatives in Organizations. Prerequisite: 1213, 1313, 2313, or equivalent. Understanding quality initiatives is the focus of this course. Students will discuss tools that can be used in order to build teams and a good environment in the workplace. (F, Sp, Su)

4650 Study in Depth. 0 to 4 hours. Prerequisite: three BLS areas. A scholarly paper on a specialized topic or an artistic or literary creation of the quality and extent comparable to a senior thesis. The study should reflect the student’s originality, competence and achievement in sustained research or creative endeavor involving a specific or limited field in some depth. (F, Sp, Su)

4670 Special Topics in Leadership. Prerequisite: 1213, 1313, 2313, or equivalent. May be repeated with change of content; maximum credit nine hours. Specific course content will be defined each time the course is offered. Reading and research, arranged and directed in consultation with the instructor, in specified areas of liberal studies. (F, Sp, Su)

4680 Advanced Topics in Liberal Studies. Prerequisite: 1213, 1313, 2313, or equivalent. May be repeated with change of content; maximum credit nine hours. Focuses on advanced topics of interdisciplinary study. Directed readings arranged with individual faculty each time the course is offered. (F, Sp, Su)

4700 Advanced Topics in Liberal Studies. Prerequisite: 2213, 2313, 2413, or equivalent. May be repeated with change of content; maximum credit nine hours. Specific course content will be defined each time the course is offered. A problem-oriented approach to interdisciplinary studies. Reading and research, arranged and directed in consultation with the instructor in specified areas of liberal studies. (F, Sp, Su)

4750 Advanced Interdisciplinary Seminar. Prerequisite: 2213, 2313, 2413, or equivalent. May be repeated with change of content; maximum credit nine hours. An intensive seminar concerned with the organization and inter-relatedness of knowledge around a central theme, problem or topic in interdisciplinary studies. Reading and research arranged and directed in consultation with the instructor, in specified areas of liberal studies. (F, Sp, Su)

4800 Investigative Studies in the Liberal Studies. Prerequisite: 2213, 2313, 2413, or equivalent. May be repeated with change of content; maximum credit nine hours. Investigation in problems not covered in existing courses and utilizing an interdisciplinary approach to problem-oriented studies. Will culminate in a written report of investigation. Specific course content will be defined each time the course is offered. Reading and research arranged and directed in consultation with the instructor, in specified areas of liberal studies. (F, Sp, Su)

4950 Internship in Liberal Studies. Prerequisite: 2213, 2313, 2413, or equivalent. May be repeated with change of content; maximum credit nine hours. Field experience in issues related to a student’s area of study. Students will gain knowledge through experiential and on-the-job practice. (F, Sp, Su)

4953 Study in Depth. Prerequisite: 2213, 2313, 2413, 3953, or equivalent. A scholarly paper on a specialized topic, or an artistic or literary creation of the quality and extent comparable to a senior thesis. The study should reflect the student’s originality, competence and achievement in sustained research or creative endeavor involving a specific or limited field in some depth. (F, Sp, Su)

G503 Introduction to Graduate Interdisciplinary Studies. Prerequisite: graduate standing. Intensive seminar providing orientation to advanced interdisciplinary study, appreciation for standards of performance and scholarship appropriate to graduate study, development of skills necessary for success in academic research and writing in graduate interdisciplinary program. (F, Sp, Su)

G501 Interdisciplinary Foundations. Prerequisite: graduate standing or permission of the dean. Selected readings designed to reinforce the interdisciplinary approach to graduate studies and to introduce the concept of paradigms as an organizing principle for understanding and interpreting information. (F, Sp, Su)

G5210 Directed Study in Humanities. 1 to 9 hours. Prerequisite: 5503. Nine hours required. Individual study in the humanities arranged in consultation with faculty. May include reading assignments, projects, field experiences, or other activities appropriate to the goals of the study program. Faculty to arrange appropriate method of reporting and evaluation for each student. (F, Sp, Su)

G5213 Interdisciplinary Study in the Humanities. Prerequisite: 5503 or permission of the dean. May be repeated twice with change of content; maximum credit nine hours. Individual study in the humanities arranged in consultation with faculty. May include reading assignments, projects, field experiences, or other activities appropriate to goals of study program. Faculty to arrange appropriate method of reporting and evaluation for each student. (F, Sp, Su)

G5220 Advanced Directed Study in Humanities. 1 to 9 hours. Prerequisite: 5510. Nine hours required for degree. Advanced directed study, collection of data, project research and preparation. Independent study, collection of data, and completion of thesis in the humanities. (F, Sp, Su)

G5226 Advanced Study in the Humanities. Prerequisite: 5534. Thesis or project research and preparation. Independent study, collection of data, and completion of thesis or project in the humanities. (F, Sp, Su)

G5310 Directed Study in Social Sciences. 1 to 9 hours. Prerequisite: 5503. Nine hours required for degree. Individual study in social sciences arranged in consultation with faculty. May include reading assignments, projects, field experiences, or other activities appropriate to goals of study program. Faculty to arrange appropriate method of reporting and evaluation for each student. (F, Sp, Su)

G5313 Interdisciplinary Study in the Social Sciences. Prerequisite: 5503 or permission of the dean. May be repeated twice with change of content; maximum credit nine hours. Individual study in the social sciences arranged in consultation with faculty. May include reading assignments, projects, field experiences, or other activities appropriate to goals of study program. Faculty to arrange appropriate method of reporting and evaluation for each student. (F, Sp, Su)

G5320 Advanced Directed Study in Social Sciences. 1 to 9 hours. Prerequisite: 5530. Nine hours required for degree. Advanced directed study, collection of data, project research and preparation. Independent study, collection of data, and completion of thesis in the social sciences. (F, Sp, Su)

G5326 Advanced Study in Social Sciences. Prerequisite: 5534. Thesis or project research and preparation. Independent study, collection of data, and completion of thesis or project in the social sciences. (F, Sp, Su)

G5410 Directed Study in Natural Sciences. 1 to 9 hours. Prerequisite: 5503. Nine hours required for degree. Individual study in natural sciences arranged in consultation with faculty. May include reading assignments, projects, field experiences, or other activities appropriate to goals of study program. Faculty to arrange appropriate method of reporting and evaluation for each student. (F, Sp, Su)

G5413 Interdisciplinary Study in Natural Sciences. Prerequisite: 5503 or permission of the dean. May be repeated twice with change of content; maximum credit nine hours. Individual study in the natural sciences arranged in consultation with faculty. May include reading assignments, projects, field experiences, or other activities appropriate to goals of study program. Faculty to arrange appropriate method of reporting and evaluation for each student. (F, Sp, Su)

G5420 Advanced Directed Study in Natural Sciences. 1 to 9 hours. Prerequisite: 5530. Nine hours required for degree. Advanced directed study, collection of data, project research and preparation. Independent study, collection of data, and completion of thesis or project in the natural sciences. (F, Sp, Su)

G5426 Advanced Study in Natural Sciences. Prerequisite: 5534. Thesis or project research and preparation. Independent study, collection of data, and completion of thesis or project in the natural sciences. (F, Sp, Su)

G5523 The World of a Museum. Prerequisite: LSTD 5513 or permission of college. Baseline course introducing all aspects of museums and museum careers including history, structure, operations, and theoretical underpinnings. (F, Sp, Su)

G5530 MLS Colloquium. 1 to 6 hours. Prerequisite: 5210, 5310, or 5410. An intensive full-time colloquium designed to explore in-depth an appropriate theme, to provide a better understanding of the nature and meaning of liberal inquiry to provide experience in the preparation and evaluation of research papers, to extend the student’s knowledge concerning the form of theses, and to assist the student in developing a thesis prospectus with the guidance and direction of the major professor. Six hours required for program. (Sp, Su)

G5540 MLS Advanced Seminar. 1 to 4 hours. Prerequisite: 5220, 5320 or 5420. An intensive seminar designed to explore in-depth an appropriate theme or problem and to provide opportunity for each student to present and defend the master’s thesis before the seminar group. (Sp, Su)

G5552 Museology Readings. Prerequisite: 5553 or permission of the dean. May be repeated twice with change of content; maximum credit six hours. Individual studies in museology in consultation with faculty. May include reading assignments, projects, field experiences or other activities appropriate to the study program. Faculty arrange appropriate method of reporting and evaluation for each student. (F, Sp, Su)

G5553 The History and Architecture of Museums. Prerequisite: 5523 or permission of the dean. The course explores the history of museums with special emphasis on the architectural development and the special facilities
G5560 Museum Project. Prerequisite: 5523 or permission of college. May be repeated with change of subject; maximum credit four hours. Students will develop a project in their home museum or organization under the direction of an OU faculty member with an on-site supervisor or can come to OU for a project at one of the OU museums or special collections. (F, Sp, Su)

G5563 Museum Management and Leadership. Prerequisite: LSTD 5523 or permission of college. In-depth study of the philosophy, policies, and practices of museum governance, including such topics as ethics, board development, institutional mission and organization. (F, Sp, Su)

G5570 Special Problems in Museology. Prerequisite: LSTD 5523 or permission of college. May be repeated with a change of content; maximum credit four hours. Topics offered under this course number will include but not be limited to: education and public programs; legislation and museum policies; exhibitions; museum stores, volunteers, and associations. (F, Sp, Su)

G5573 Museums, Cultures, and Communities. Prerequisite: LSTD 5523 or permission of the college. The course will focus on the complex issues between museums, diverse populations, and other public factors such as public and education programs, fundraising, public relations, marketing, etc. (F, Sp, Su)

G5583 Collections Management. Prerequisite: LSTD 5523 or permission of college. This course will consider the place of collections in the life of a museum; how collections mesh with the museum mission; collections policies and stewardship. It will relate theoretical ideas on collection development and maintenance to the actualities of museum situations. (F, Sp, Su)

G5590 MLS Special Studies. 1 to 9 hours. Prerequisite: permission of instructor and dean. May be repeated with change of content; maximum credit nine hours. Interdisciplinary study at the graduate level of specialized problems defined in consultation with student and instructor. Specific course content will be defined each time course is offered. (F, Sp, Su)

G5623 Theories of Management and Leadership. Prerequisite: 5003, 5013 or permission of the dean. This course explores and analyzes the concept of leadership including such topics as leadership theory, changing leadership roles, power, decision-making, empowerment, vision, communication, diversity, and ethics. (F, Sp, Su)

G5633 Cultures of Organizations. Prerequisite: 5623 or permission of dean. The course looks at the meaning of organizational culture and its significance for leadership behavior; ways of thinking about organizations and the structure of organizations, the implications for leaders, and other relationships between organizations and aspects of leadership. (F, Sp, Su)

G5643 The Individual and Leadership. Prerequisite: 5633 or permission of dean. This course explores the social, psychological, and behavioral characteristics of leadership, personal skills that enhance leadership ability, and strategies for dealing with interpersonal problems in organizations. (F, Sp, Su)

G5654 Ethics and Leadership. Prerequisite: 5643 or permission of dean. The course introduces the nature of ethics, the relationship between ethics and morals, and the function of ethics in a social context. Major emphasis is on the exercise of ethical decision-making on successful leadership and the role that ethical behavior plays in the success of organizations. (Irreg.)

G5663 Perspectives on Leadership. Prerequisite: 5013 or permission of the dean. May be repeated with change of content; maximum credit 6 hours. The course content will vary to include in-depth examination of relevant topics in leadership that meet student interests and add value to the program. (F, Sp, Su)

G5673 Special Problems in Leadership. Prerequisite: 5013 or permission of the dean. May be repeated with change of content; maximum credit 6 hours. Individual readings course on select leadership topics; in-depth literature and/or research review of problems in leadership selected for investigation. (F, Sp, Su)

G5790 Advanced Topics in Interdisciplinary Studies. Prerequisite: 5013 or permission of the dean. Intensive research on a topic related to the student’s program of study; variable topics. (F, Sp, Su)

G5890 Investigative Interdisciplinary Studies. Prerequisite: 5013 or permission of the dean. May be repeated with change of content; maximum credit 9 hours. Exploration of special issues and/or problems related to the student’s program of study; variable content. (F, Sp, Su)

G5903 Research Methods in Interdisciplinary Studies. Prerequisite: 5013 or permission of the dean. Theories and techniques of research designed to prepare MLS students to carry out individual research on a topic within an interdisciplinary program of study. (F, Sp, Su)

G5904 MLS Colloquium. Prerequisite: permission of the dean. An intensive seminar designed to explore a topic from an interdisciplinary perspective. (Sp, Su)

G5931 Research Prospectus in Liberal Studies. Prerequisite: 5213, or 5313, or 5413. Development of thesis, project or internship topic including a literature review, research plan, and the thesis, project or internship program. (F, Sp, Su)

G5940 Research Project in Liberal Studies. Prerequisite: 5531 or 5533 or 5931 or permission of college. May be repeated; maximum credit six hours. Development of creative or applied research project related to MLS study focus. The final form will vary according to topic and purpose of the project but will include a written component. Comprehensive examination over the research project is required. (F, Sp, Su)

G5943 MLS Advanced Seminar. Prerequisite: 5940 or 5950 or 5980 or permission of the dean. An advanced seminar on an interdisciplinary topic selected by the faculty. (F, Sp, Su)

G5950 Internship in Liberal Studies. 2 to 9 hours. Prerequisite: 5533 or 5531 or 5931 or permission of college. May be repeated; maximum credit six hours. 450 hours of field experience directly related to study focus in the MLS program. Requires inclusion journal, reports, written summary, and comprehensive examination over these materials. (F, Sp, Su)

G5960 Directed Readings in Interdisciplinary Studies. Prerequisite: 5013 or permission of the dean. May be repeated with change of content; maximum credit 9 hours. In-depth study of literature on a topic related to the student’s program of study; variable content. (F, Sp, Su)

G5980 Research for Master’s Thesis. Prerequisite: 5531 or 5533 or 5931 or permission of college. May be repeated; maximum credit six hours. Research and writing of a thesis for completion of the MLS degree. (F, Sp, Su)

### Library and Information Studies (LIS)

**1013 Use of the Library and Information Resources.** The general process of defining information needs in selecting appropriate information sources. Intended to make students more knowledgeable consumers of information. Exercises in the use of information resources stressing the full range of sources and services available in libraries and information centers. (F, Sp)

**2003 The Information Environment.** Explores the definition, impact, and history of information and information transmission. Introduces technology used to create, read, store, retrieve and transmit information. Analyzes societal institutions, techniques, and processes for the creation, distribution and management of information. Assesses the role of the information professions and information systems in culture and society. (F)

**3003 Object-Oriented Information Systems.** Prerequisite: junior standing. Data and information structures; information architecture; information representation; information needs assessment; flow analysis; programming concepts and languages. (Sp)

**4003 Information Systems and Networks.** Prerequisite: junior standing. Management of information technology; fundamental issues in operations and services associated with networked, digital resources; computers and communications in the digital age; storage and retrieval of text, images, and sound; understanding the use and users of networked information. (F)

**4103 Design and Implementation of Networked Information Services.** Prerequisite: junior standing. Design fundamentals for networked information services; implementation of storage, access, and distribution systems; knowledge representation methods; metadata and information structures; connectivity infrastructure; characteristics and behavior of networked audiences; systems use and usability. (F)

**4303 Children’s Literature.** Prerequisite: junior standing. Survey, evaluation and selection of materials for children; interests and needs of various age groups; methods of stimulating reading and listening. Reading of books for children is emphasized. (Correspondence)

**4663 Information Studies Field Project.** Prerequisite: 2003, 3003, 4003, 4103, and senior standing. Capstone course for the Bachelor of Arts in Information Studies; designed to develop an operational prototype information system in a selected organizational setting. (F, Sp, Su)

**4823 Internship in Information Studies.** Prerequisite: 2003, 3003, 4003, 4103, and senior standing. Provides an opportunity for student synthesis of principles and theories acquired in coursework and application of these principles and theories in a working environment. Under professional supervision, the student will complete 135 hours emphasizing general understanding of the specific assignment and completion of a focused project. (F, Sp, Su)

G5003 Information Systems and Networks for Libraries, Archives and Museums. Prerequisite: graduate standing or permission of instructor. Introduction to the complex issues of the management of information.
technology in libraries, archives, and museums, and other information centers. The focus is on the fundamental changes in operations and services associated with networked, digital resources. Emphasis on computers and communications in the digital age, storage and retrieval of text, images, and sound, and understanding the use and users of networked information. (F, Su)

G5013 Information Sources and Services. Characteristics and use of information sources and services; policies and design for the provision of service in libraries and other information agencies. Introduction to basic reference tools in both print and electronic formats. (F, Sp)

G5023 Management of Information and Knowledge Organizations. Prerequisite: 5033. Theories, processes, behaviors, and issues that allow knowledge-based institutions to transform themselves into ones that organize and share knowledge in an effective, efficient manner; leadership, motivation, and organizational communication; management of knowledge workers, ethical and legal aspects of managing information and knowledge organizations. (F, Sp)

G5033 Information and Knowledge Society. Prerequisite: graduate standing or permission of instructor. The nature of knowledge and information; national and global organizational information infrastructure; the role of information and knowledge professionals in the knowledge society; information policy; economics of information; information industries; legal and ethical considerations in information and knowledge systems. (F, Sp)

G5043 Organization of Information and Knowledge Resources. Prerequisite: 5033. Organization of internal and external sources of information; information services and tools; basic concepts of information storage and retrieval systems; design and structure of information systems; identification and organization of knowledge resources such as expertise, skills and competencies; knowledge organization methods such as classification, cataloguing, taxonomies and metadata; search strategies and information retrieval. (F, Sp)

G5053 Information Users in the Knowledge Society. Prerequisite: 5033. Information use by people in various roles, situations, and contexts, individually and in groups. Information behavior and the influence of learning and cognitive processes; value systems; and situational, psychological, sociological, and political perspectives. Application of study of user information behavior to textual, graphical, and visual representation of knowledge. Includes both theoretical models and practical methodologies for study of uses and for user-centered design of information and knowledge systems and services. (F, Sp)

G5083 School Library Media Center Administration. Prerequisite: graduate standing or permission of instructor. History and role of school library media centers in the educational program; planning, organizing and administering library programs in the elementary and secondary schools. (Sp)

G5103 Design and Implementation of Networked Information Services. Prerequisite: 5003 or permission of instructor. Design fundamentals for networked information services. Emphasis on implementation of storage, access, and distribution, knowledge representation methods, search engines and indexing based on analysis and evaluation of current connectivity infrastructure, and characteristics and behavior of networked audiences. (F)

G5113 Knowledge Representation. Prerequisite: 5043. Approaches to representing knowledge; textual, graphical, and visual representation of knowledge. Knowledge-based systems, artificial intelligence, and expert systems. (F)

G5123 Literature and Methods for Readers’ Advisory Services. Prerequisite: 5033 and 5053. Examination of value and role of leisure reading in U.S. public libraries; interview techniques, support processes, and bibliographic resources for providing services to adults and older adolescent readers. (Irreg.)

G5143 Government Publications (Crosslisted with History 5143). Prerequisite: 5013 or permission of instructor. Acquaints the student with the basic reference sources that provide access to the publications of governmental organizations. United States government publications are stressed. Topics include: the basic catalogs and indexes; depository system; acquisition, selection, organization, use and on-line retrieval of government publications. (Sp)

G5153 Science and Technology Information Sources. Prerequisite: 5013. Information sources and systems in science and technology; with emphasis on information-seeking behaviors and search strategies, and on the use of print and on-line sources to meet the needs of different clientele. (F)

G5173 Social Science and Humanities Information Sources. Prerequisite: 5013. Information sources and systems in selected social science and humanities disciplines, with emphasis on information-seeking behaviors and search strategies, and on the use of print and on-line sources to meet needs of different clientele. (Su)

G5203 Cataloging and Classification. Prerequisite: 5043 or concurrent enrollment. Detailed study of principles and practices of cataloging and classification of library materials according to current national standards. Instruction covers original descriptive cataloging of print and non-print materials, subject analysis and classification. (Sp)

G5213 Indexing Theory and Practice. Prerequisite: graduate standing. History, principles, techniques and applications of indexing, abstracting, and vocabulary control. Critical analysis of the organization, preparation, evaluation, and use of indexes and thesauri. Includes file organization and maintenance, information presentation and coding, natural language processing, and thesaurus construction. Examines the effects of indexing practices on information storage and retrieval. (F)

G5233 Preservation of Information Materials. Introduction to the theory and practice of the preservation and conservation of the physical format and/or the intellectual content of information materials in a variety of information centers at all levels. Emphasis on the initiation of, participation in, and administration of preservation programs. (Alt. F, Sp)

G5323 Adult Services in Library and Information Centers. Prerequisite: 5013. An overview of adult services with the purpose of deciding upon appropriate service strategies for libraries. Various research studies will be examined to enhance understanding of the nature of adults as readers, learners and users of libraries. (Alt. Su)

G5333 Multicultural Librarianship. Prerequisite: graduate standing. Course is designed to create an awareness of and sensitivity to multicultural heritages and diverse information needs of multiethnic populations served by libraries. Information needs assessment and analysis; program planning and collection development. (Alt. F, Su)

G5343 History of Information Transfer and Information Agencies. Overview of development of graphic records, focusing on print culture, libraries and librarianship, and the production, distribution, storage and retrieval of information agencies in their social, cultural, and political contexts, including multicultural, interdisciplinary and international aspects. (Alt. F)

G5353 Selection of Print and Non-Print Materials for Children, Young Adults and Adults. Examination of the selection process, including issues about collection development, policy statements, selection aids, criteria by format, acquisition procedures, and maintenance and evaluation of materials pertinent to needs of children, young adults and adults. (F, Sp)

G5363 Books and Materials for Children. Prerequisite: graduate standing or permission of instructor. Seminar involving in-depth criticism of children’s materials; thematic/issues approach to reading guidance; twentieth-century trends; recent literature; and selection/evaluation. (Alt. F)

G5373 Books and Materials for Young Adults. Prerequisite: graduate standing or permission of instructor. In-depth criticism of young adult material; seminar involving thematic/issue approach to reading guidance; twentieth-century trends; recent literature; and selection/evaluation. (Sp)

G5453 Public Relations for Libraries and Information Centers. Prerequisite: 5023, 5083 or permission of instructor. Examination of the communication process by which the library/information center personnel satisfy user needs and provide the transmit information about the program, objectives and functions to develop public awareness and support. Includes as audiences: the users, the library/information center staff, general public, governance entities, political representatives, educational and service agencies, and professional organizations. (Alt. F)

G5463 Information Uses and Services. Prerequisite: 5013. Information needs and information-seeking behaviors of different clientele; client expectations and professional standards for the design and operation of information services. (Alt. Su)

G5473 Document and Records Management. Prerequisites: 5033 and 5043. The systematic capture, acquisition, and processing, storage, and control of documents in all formats, including their management as records throughout the life cycle from creation to final disposition. Introduction to principles, methodologies, administration, tools, and techniques in various settings. (Irreg.)

G5503 Information Literacy and Instruction. Prerequisites: 5033 and 5053. Instructional methods and materials for the acquisition and development of information literacy skills; theories of instruction and current trends in information literacy instruction. (Irreg.)

G5523 Database Searching. Prerequisite: 5013 or permission of instructor. Principles and techniques for the selection and use of computer databases. Practical experience with products offered by major information providers. Criteria for the evaluation of databases and search services. (F, Su)

G5533 Introduction to Instructional Technology (Crosslisted with EIPT 5533). Prerequisite: graduate standing or permission of instructor. Examination of theoretical and critical issues regarding educational technologies. Practical application and development of skills utilizing technology tools. (F)

G5613 Biomedical Bibliography and Reference Materials. Prerequisite: 5013 or permission of instructor. Provides an in-depth study of the organization of medical reference departments; reference sources in the health
sciences; and the major textbooks in the basic sciences, clinical sciences, and related specialties. Medical audiowisuals, periodicals, indexes and abstracts are included as is automated searching of medical literature. Basic medical terminology is an integral part of the course and given special consideration. (Su)

G5623 Biomedical Data Bases. Prerequisite: 5613 or permission of instructor. An in-depth approach to the on-line data bases supplied by the National Library of Medicine and to the biomedical data bases supplied by commercial companies. Deals with all aspects of searching, including the development of effective policies and procedures. Differences and similarities among the data bases are emphasized. (F)

G5663 Knowledge Representation Design Project. Prerequisite: 5023, 5043, 5113, 5453, Organizational Dynamics 5113, and permission of instructor. Design and development of an operational prototype for a system to support knowledge management in a selected organizational setting. (F, Sp, Su)

G5703 Electronic Access to Social Science Research Resources. Prerequisite: graduate standing or permission of instructor. Introduction to the structure of the knowledge domains, literatures, and metadata systems of the disciplines of the social sciences and their related professional fields. Includes overview of major indexing and document delivery systems and development of strategies for identification and evaluation of information. Emphasis on retrieval of relevant information sources in all formats and delivery modes through use of digital access systems. (F, Sp, Su)

G5803 Elements of Research. Scientific methods of investigating library problems, evaluating research studies in library and information science, developing original research design. (Sp)

G5813 Archives and Records Management. Prerequisite: six hours of library and information studies coursework or permission of instructor. The systematic control of records throughout their life cycle from creation through processing, distribution, organization and retrieval to archival disposition. Introduction to archival principles, administration and techniques in various settings. (Alt. F)

G5823 Internship in Library/Information Centers. Prerequisite: 18 hours of LIS coursework, including one-half of the required courses, and permission of the supervising instructor. Provides an opportunity for student synthesis of principles and theories acquired in coursework and application of these principles and theories in an outstanding library/information center. Under professional supervision, the student will complete 135 hours. (F, Sp, Su)

G5920 Directed Research. 1 to 3 hours. Prerequisite: 5803 and permission of instructor and adviser. May be repeated; maximum credit six hours. Research under faculty supervision; requires a written report. (F, Sp, Su)

G5940 Directed Project. 1 to 3 hours. Prerequisite: 24 hours of Library and Information Studies coursework and permission of instructor and adviser. May be repeated; maximum credit three hours. Design and implementation of a professional project that applies principles and theories acquired in coursework to the solution of professional problems in practical settings. Requires a project prospectus and a written report at conclusion of the project. Conducted under faculty supervision. May not be taken for credit toward the MLS degree by students electing thesis option. (Irreg.)

G5960 Directed Readings. 1 to 3 hours. Prerequisite: 15 hours of LIS coursework and permission of instructor and adviser. May be repeated; maximum credit six hours. Exploration of an area of library and information studies not covered in regularly offered course. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, six hours. (F, Sp, Su)

G5990 Special Problems. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated; maximum credit nine hours. Examination and discussion of current problems in librarianship. (Irreg.)

Linguistics (LING)

1203 Language Across Cultures (Crosslisted with Anthropology 1203). Theories of language family origins and their relationship to human migration; types of human languages; linguistic concept of genetic relatedness; writing systems development; non-Western sociolinguistic and usage phenomena; cultural and scientific importance of endangered languages; how languages become endangered; factors involved in preservation. This course may not count for major credit. (Sp [IV-NW])

2303 General Linguistics (Crosslisted with Anthropology 2303). Humanistic and formal study of natural languages: how they are similar to, and different from, one another in their use of speech sounds, logical structures and mechanisms that integrate events, objects and speakers in spatio-temporal contexts. The relationship between language and culture; language acquisition and language change. (F, Su) [I-O]

3033 Phonetic Description (Crosslisted with Anthropology 3033). Prerequisite: 2303. Study of the basic principles in forming the phonetic description of human speech. (Sp)

3043 Linguistic Semantics. Prerequisite: 2303. An introduction to basic ideas and concepts in the field of linguistic semantics. Includes discussion of current issues and representative theoretical approaches. (F)

3053 Grammar: Phonology (Crosslisted with Anthropology 3053). Prerequisite: Anthropology or Linguistics 3013. Description of human speech sound analysis of speech sound systems; study of the varied ways human communities use speech sounds to convey and share information. Principled development of writing systems for unwritten languages. Includes the description and analysis of non-Indo-European language materials. (F)

3063 Language and Culture (Crosslisted with Anthropology 3063). Prerequisite: 2303. The relationships between language and the rest of culture, with emphasis on diachronic as well as synchronic problems. Such crucial issues as the limitation of language on thought and perception and language and conceptualization are also considered. (Sp)

3353 Syntax (Crosslisted with Anthropology 3353). Prerequisite: 2303. An introduction to the fundamental concepts of Chomskian syntax. Includes theory of categories and constituents, basic syntactic relations, case theory, and binding theory. (F)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program and will cover material not usually presented in regular coursework. (F, Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in his/her field. (F, Sp)

4023 Second Language Acquisition Theory (Slashlisted with 5023). Prerequisite: 2303 or four semesters foreign language. Multidisciplinary approach to second language acquisition. Treats child language, interlanguage, universal grammar, input, interaction, output, non-language influences and formal instruction. No student may earn credit for both 4023 and 5023. (F)

4053 Morphology (Slashlisted with 5053; Crosslisted with Anthropology 4053). Prerequisite: 3053 and 3353. Introduces and develops theories and concepts of morphology including word formation, derivation, inflection, non-categorial morphemes, the categories, prosodic phenomena, morphosyntactic categories and clitics. Data from non-Western languages will be prominent. No student may earn credit for both 4053 and 5053. (Irreg.)

4313 Techniques of Historical Linguistics. Prerequisite: Anthropology or Linguistics 3053, or permission. Brief survey of the development of historical linguistics, the comparative methods, internal reconstruction, types of linguistic change, relationships between linguistic and cultural change, new developments in the field of historical linguistics. (Irreg.)

4330 Topics in Linguistics (Slashlisted with 5330; Crosslisted with Anthropology 4330). 1 to 4 hours. Prerequisite: nine hours of linguistics. May be repeated with change of content; maximum credit nine hours. Topics covered may vary across theoretical and applied areas of linguistics. Some topics that are appropriate include socio-linguistics, psycho-linguistics, language acquisition, advanced syntax, advanced phonology, field phonetics, pragmatics, and comparative readings of twentieth-century theorists. No student may earn credit for both 4330 and 5330 on the same topic. (Irreg.)

4363 Linguistic Field Methods (Crosslisted with Anthropology 4363). Prerequisite: 2303, 3053, AND 3353. An introduction to all phases of linguistic field techniques, including training in the selection of informants, the use of recording devices, and most important, the actual collection and analysis of linguistic materials. (Irreg.)

4533 Philosophy of Language (Crosslisted with Philosophy 4533; Slashlisted with 5533). Prerequisite: eight hours or philosophy or permission. Survey of major philosophical views on the nature and workings of language. Topics covered include: meaning and truth, sense and reference, speech acts, and communication. No student may earn credit for both 4533 and 5533. (Irreg.)

4543 Philosophy of Mind (Crosslisted with Philosophy 4543; Slashlisted with 5543). Prerequisite: eight hours of philosophy or permission. Survey of major philosophical views on the nature of the mind. Topics covered may include: the nature and unity of consciousness, the mind-body problem, personal identity, the emotions, actions and intentions, self-knowledge, and other minds. No student may earn credit for both 4543 and 5543. (Irreg.)

4550 Linguistic Structures of North America (Crosslisted with Anthropology 4550). 3 to 6 hours. Prerequisite: Anthropology or Linguistics 2303. An examination of the structure of a number of Native American languages which is intended to provide the major in linguistics or anthropology with a detailed knowledge of several important Indian tongues. (CE)
Management (MGT)

3013 Principles of Organization and Management. Prerequisite: junior standing. An introductory course presenting the basic concepts and practices of management, both private and public. Historical development of management; basic definitions and philosophy; fundamental managerial functions, including planning, organizing, staffing, directing, and controlling; a survey approach to quantification in organizational life; current trends in management; possible future developments in organization and administration. (F, Sp, Su)

3513 Human Resource Management Practice. Prerequisite: 3013. A survey course that focuses on developing students’ understanding of human resource issues and the practical application of methods for solving these issues. Topics covered include job analysis, recruitment, interviewing, selection, performance appraisal, training, compensation, and equal employment opportunity. Issues are reviewed within the context of historical and current social, labor market, legal and global economic conditions influencing practice. (F, Sp)

3523 Production/Operations Management. Prerequisite: Economics 2843, Mathematics 1743, junior standing. A study of the principles and practices related to production and operations management including product decisions, process planning, project planning, work measurement, plant location, facilities layout, scheduling and associated analytical techniques. (F, Sp, Su)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to study materials not usually presented in regular courses. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

G4023 Principles of Inventory and Materials Management. Prerequisite: 3523 or permission; junior standing. A study of inventory management with emphasis on order quantities, inventory cost, forecasting, perpetual inventory systems, periodic inventory systems and material requirements planning. (F, Sp)

G4123 Industrial Relations. Prerequisite: 3513 or permission. Survey of history and theory of trade union, labor law, factors in the labor market, contract negotiations and administration. Identification and definition of the role of management, unions and government in the industrial relations process. (F, Sp)

G4153 Current Issues in Human Resource Management. Prerequisite: 3513 or permission. An in-depth coverage of selected human resource issues. Issues covered include human resource costing, equal employment opportunity, recruiting, interviewing, selection, training and development, and performance appraisal. Focus is on the application of research results to problems and opportunities presently confronting human resource practices. (F, Sp, Su)

G4323 Cross-Cultural Issues of Managerial Behavior. Prerequisite: 3013 and Business Administration 3513. Introduces students to the work values and behaviors of individuals in countries around the world. Some of the topics covered in the cross-cultural comparisons discussed in this will include: approaches to motivation, compensation, reward, decision-making, and negotiation. Particular emphasis will be placed on the developed and developing regions of the world that are important participants in today's global economy. (Irreg.)

G4363 Organizational Behavior. Prerequisite: 3013 and senior standing, or permission. Covers the structure of organizations and the dynamics of behavior within organizations. Included are such topics as job design, perception, communication, decision making, motivation, groups, leadership, and organizational change and effectiveness. (F, Sp)

4373 Compensation Issues in Management. Prerequisite: 3513. Designed to help future managers understand and use human resource compensation systems. Students will be exposed to theories from labor economics and psychology that guide modern compensation systems. Compensation practices covered include job analysis, relevant legislation design, limited financial resources. (F, Sp)

4513 Organizational Design and Theory. Prerequisite: 3513, 3523. An advanced course in the area of theory and practice of organization and administration, both private and public, from earliest times to the present day. Managerial patterns and techniques as influenced by changing social concepts and by the impact of technology. Consideration of individual organizations and managerial personalities. (F, Sp)

G4523 History of Management. Prerequisite: senior standing or permission. The historical development of the theory and practice of organization and administration, both private and public, from earliest times to the present day. Managerial patterns and techniques as influenced by changing social concepts and by the impact of technology. Consideration of individual organizations and managerial personalities. (F, Sp)

G4710 Special Problems in Management. 1 to 3 hours. Prerequisite: junior standing and permission. May be repeated with change of subject matter; up to six hours with 18-hour major and three hours with 15-hour major. (F, Sp, Su)

G5035 Production/Operations Analysis. Prerequisite: graduate standing and Mathematics 1743 or equivalent, and permission. A study of production and operations with emphasis on policy decisions, production decisions, network analysis, job design, facilities decisions, plant layout, forecasting, production planning and associated analytical techniques. (F, Sp)

G5083 Human Resource Management and Organizational Behavior. Prerequisite: permission (Director, PCB Graduate Programs); graduate standing. Survey of theory, practice and research in the major functional areas of human resource management to include planning, staffing, performance appraisal, compensation, labor relations, and training and development. Also examines the organizational behavior literature relevant to the implementation of human resource programs and activities. Includes such topics as motivation, communication, group dynamics, conflict management and organizational change. (F, Sp)

G5113 Organizational Behavior and Administration. Prerequisite: permission (Director, CBA Graduate Programs); graduate standing. Explores the factors that affect human behavior in organizational settings by examining the impact of alternative administrative practices on organizational effectiveness and member satisfaction. Topics include: perception, motivation,
communication, decision making, groups, leadership and organizational development. (Sp)

G5153 Inventory Systems and Materials Management. Prerequisite: graduate standing, permission (Director, CBA Graduate Programs). A study of the significance of materials to the effective functioning of an organization. Emphasis is placed on the economic selection of inventory systems and models. Topics include forecasting, fixed order size systems, fixed order interval systems, single order systems, material requirements planning and aggregate inventory control. (Sp)

G5313 Industrial Relations. Prerequisite: Graduate standing. Relations of management and labor; principles and techniques of collective bargaining; types of union agreements; federal and state labor laws and administrative regulations and requirements; future development of management-labor relations. (F, Sp)

G5323 Strategy Consulting. Prerequisite: B AD 5313 (may be taken concurrently) or permission. Provides the opportunity for students to understand the applicability, theories, and models regarding how to pursue a consulting engagement and apply them in the field in real organizations facing real challenges. Besides actually conducting a consulting engagement, students will learn about the management issues facing the consulting industry through case studies of consulting firms. (Sp)

G5353 Interpersonal and Group Dynamics. Prerequisite: Graduate standing. Through completion of this course, students should become more aware of: 1) what is known about the way groups function, 2) how the management of group dynamics enhances or detracts from organizational effectiveness, and 3) how their personal interaction patterns are likely to affect the groups to which they belong. In addition, students should develop their ability to observe the dynamics of group interaction and increase their own personal skills. (Irreg.)

G5373 International Management. Prerequisite: Graduate Standing. Examines the relationship between international involvement in business and the resulting impact on human resource management. The primary focus is selection, training, compensation, and evaluation of home, host, and third world country nationals working in international assignments. The course also examines the impact of multinational corporations on the environments in which they operate. This section of the course centers on the economic mission of the company relative to its social responsibility in the foreign country. (F, Sp).

G5383 Compensation Theory and Administration. Prerequisite: permission (Director, CBA Graduate Programs). Topics on administration will include job analysis, descriptions, specifications, and evaluation; wage determination; rate ranges, wage surveys, performance appraisal, incentive plans, benefits and compensation laws. Topics from theory underlying the administration will include motivation, job satisfaction, job design, wage criteria, communications, group processes, employment exchange and micro- and macro-economics. (F, Sp).

G5513 Planning, Staffing and Development. Prerequisite: permission (Director, CBA Graduate Programs); graduate standing. Detailed analysis of the process which gets individuals from the labor market into the organization, how they are utilized, and how they are trained and developed professionally and personally. Topics include forecasting, recruiting, placement, test fairness and career management. (Sp)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. The only passing grade given is the neutral grade of S. (F, Sp, Su)

G6101 Seminar on the Academic Profession (Crosslisted with Marketing 6101). Prerequisite: graduate standing and permission of director CBA graduate programs. May be repeated; maximum credit five hours. Socialization of doctoral students in marketing and management to the education profession. Focus will be on developing and understanding of quality efforts in teaching, research, and service. (F, Sp)

G6253 Seminar in Organization and Administration. Prerequisite: graduate standing. A consideration of major topics in organization structure and macro-organization theory. Emphasis will be given to applications in a wide variety of organizational and administrative contexts. (Sp)

G6273 Behavioral Analysis in Management and Marketing (Crosslisted with Marketing 6273). Prerequisite: graduate standing and permission of director CBA graduate programs. Addresses personal and interpersonal issues in marketing and management. Application of social science theory to explain the behavior of organization members. (Irreg.)

G6293 Strategic Marketing and Management (Crosslisted with Marketing 6293). Prerequisite: graduate standing and permission of director CBA graduate programs. Reviews the major theories, concepts, and frames of reference regarding strategic marketing and management. (Irreg.)

G6403 Seminar-Minor Information Systems. Prerequisite: graduate standing. Tools and techniques of collecting and evaluating information in an organization. Investigation of total organization systems view with emphasis on automatic data processing of the information system. (F, Sp)

G6503 Development of Management Thought. Prerequisite: graduate standing and permission. A history of the significant contributions to management theory and practice; includes major concepts as they developed in light of the economic, social and political environment of management. (F)

G6513 Global Business and the Environment (Crosslisted with Marketing 6513). Prerequisite: graduate standing and permission of director CBA graduate programs. Examines the complex relationship between an organization and the multiple markets it operates in globally. Includes organizational structure, adaptation of business functions to effectively compete in global markets, assessing opportunities in overseas markets, and assessing the performance of organizations in global markets. (F)

G6960 Readings in Selected Fields of Management. 1 to 4 hours. Prerequisite: twelve hours of management, graduate standing and permission. Guided reading in selected fields of management theory and application, conducted on a conference basis by staff. Scope of reading and credit to be arranged on entry into course. The only passing grade in this course is the neutral grade of S. (F, Sp, Su)

G6973 Seminar. Prerequisite: graduate standing and permission. May be repeated with change of topic; maximum credit twelve hours. A seminar for graduate students with topics to be announced each time course is offered. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)

Management Information Systems (MIS)

2013 Programming Concepts and Practice. Prerequisite: undergraduate major in Business. May be repeated once with change of topic; maximum credit six hours. Introduces the basic principles of structured programming and design. Topics covered are language syntax, algorithm development, flowcharting, logical relationships, math functions, and job control statements. (F, Sp, Su)

2113 Computer-Based Information Systems. Prerequisite: undergraduate major in business. Covers theory and practice for design and use of computer-based information systems in organizations. Project work includes using a relational database and designing a personal web page. Students demonstrate their ability to use a personal computer for word-processing, spreadsheet, database, and presentation applications by passing a competency exam. Laboratory (F, Sp, Su)

3023 COBOL. Prerequisite: 2113 and junior standing. A course in programming and design using procedural languages and techniques. (Irreg.)

3033 Non-Procedural Programming Languages. Prerequisite: 2113 and junior standing; 3353 or permission. May be repeated once with change of topic; maximum credit six hours. Various emerging programming languages and tools relevant to MIS applications. The basic syntax, code construction, and business use of the language will be covered. Possible languages could include C++, FOCUS, VISUAL BASIC, SMALLTALK, POWERBUILDER, or others. (F, Sp, Su)

3043 Topics in Advanced Non-Procedural Programming. Prerequisite: 3033 and junior standing, or permission. May be repeated once with change of topic; maximum credit six hours. An intensive second course in programming and design using non-procedural languages and techniques. (F, Sp, Su)

3113 Information Systems Theory and Structure. Prerequisite: 2003 or permission. Provides a rigorous introduction to theory, concepts and principles from a number of disciplines that underlie information systems in goal-oriented organizations. Topics include: history of information processing; language; formal grammars; mathematical information theory; decision theory; information economics; systems theory; feedback control; human information processing models; basic computer science; information system conceptual frameworks; and management issues. (F, Sp)

3213 Microcomputers and Information Systems. Prerequisite: 2113 and junior standing, or permission. Stresses information center methods for managing and information center. This course may not be used for credit toward an MIS major or minor. (F, Sp)
4343 Database Theory and Development. Prerequisite: 2113 and concurrent enrollment or completion of 3013 and junior standing, or permission. Presents theory, concepts, and practice for database development and data management with an emphasis on the database development life cycle. Students learn conceptual data modeling using business rules, normalization, structured query language (SQL), and physical database design. Issues surrounding data administration are also covered. (F, Sp, Su)

4343 Information Systems Infrastructure. Prerequisite: 3353 or corequisite or permission. A study of information system architecture including networks, processors, clients, operating systems, middleware, database management systems, information warehouses, groupware, EDI, DSS, systems management, interoperability, benchmarking, security, and disaster protection. The focus is to enable the student to understand, design, and analyze current and proposed information technology configurations. (F, Sp)

4377 Systems Analysis and Design Theory. Prerequisite: 3353 or permission. A study of structure and application of tools, technologies, and models for analyzing, designing, and evaluating information systems. Topics include: case tools, structured analysis, I/O design, rapid application development, simulation models, prototyping, human factors, alternatives, cost/benefit analysis, recommendations for a new system, implementation and post-evaluation. (F, Sp)

3483 Information Technology and Ethical Issues. Prerequisite: 2113 and junior standing, or permission. Covers information technology and ethical issues including issues of information privacy, information access, and information property rights. A foundation in moral theory is provided as a basis for evaluation of the ethical issues concerning information technology. Ethical scenarios, cases and current event items are used to provide a broad, practical awareness of the ethical issues. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to study materials not usually presented in regular courses. (F, Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp)

4213 Prototyping and Rapid Application Development. Prerequisite: concurrent enrollment or completion of 3373, or permission. Stresses information center methodology for building systems in collaboration between users and analysts. Topics include prototyping, user-driven systems, user support, user training, product demonstration, and managing an information center. Students will design, build, and experiment with a working prototype of a business system. (F, Sp)

4423 Telecommunications and Distributed Processing. Prerequisite: 3363 or permission. A study of the basic concepts of telecommunication and distributed processing, including data communication equipment, protocols, local and wide area networks and the associated topologies. Stresses structure, interoperability, load analysis, and performance analysis. Taught in a laboratory environment. (F, Sp)

4413 Object-Oriented Systems Development (Slishlisted with 5413). Prerequisite: 3373 or permission. Presents object-oriented theory, concepts, and practice for systems development. Concepts such as abstraction, identity, encapsulation, polymorphism, inheritance, and reuse are discussed. The unified modeling language (UML) is used for practice in object-oriented analysis (OOA) and object-oriented design (OOD). No student may earn credit for both 4413 and 5413. (F, Sp)

4433 Project Management. Prerequisite: concurrent enrollment or completion of 3373 or permission. Presents the technical, managerial and organizational concepts and tactics associated with managing software development and/or acquisition projects. A project management software tool will be introduced and used at a very basic level. (Irreg.)

4443 Advanced Database Management. Prerequisite: 3353. Advanced topics in database design and management such as data administration, security, multi-user access, file organization, and backup and recovery procedures. (F, Sp)

4473 Group Support Systems. Prerequisite: 3363 and junior standing, or permission. Explores the dimensions of information technology support for work groups or project teams including traditional group support systems, computer systems for collaborative work, and electronic meeting systems. Issues addressed include the design and implementation of these systems as well as their organizational and economic impact on people, groups, projects, firms, virtual firms and society. (Irreg.)

4483 Electronic Commerce. Prerequisite: 3363 or permission. A study of applying electronic communication to achieve business objectives. Explores the use of such information technologies and concepts as virtual firms, EDI, electronic funds transfer, the Internet and the World Wide Web. Laboratory facilities are used for experiments and assignment preparation. (Irreg.)

4493 International Issues of Information Technology. Prerequisite: 2113 and junior standing, or permission. A study of the practice, issues and benefits using information technologies in international and cross-culture environments. Subjects include: international telecommunications and computing infrastructures, policies, laws and practices; and, the effects of it on the definition and structure of international markets, logistics, organizations and nations. (Irreg.)

4663 MIS Field Project. Prerequisite: 3033, 3363, 3373, or permission. Involves a field project for a client-business firm or other organization. Students will work closely with their client; perform an analysis, provide design alternatives, evaluate alternatives, develop and demonstrate a working model (prototype) of a part of the system, prepare a recommendation, and make a formal presentation to their client. (F, Sp)

4710 Topics in Management Information Systems. 1 to 3 hours. Prerequisite: 2113, 3013 or 3033, or permission. May be repeated once with change of topic; maximum credit six hours. Topics may include any MIS related area; offered at the request of a faculty member with division approval. (Irreg.)

4960 Directed Reading in Management Information Systems. 1 to 3 hours. Prerequisite: 2113, 3013 or 3033, or permission. May be repeated once with change of topic; maximum credit six hours. Topics in the management of information systems. (F, Sp, Su)

5003 Management Information Systems. Prerequisite: graduate standing or permission of instructor. Study of information systems applications and management in a business environment. Includes personal productivity, basic technology and infrastructure; design, development and management of computer information systems; and impacts of technology on business practices. (F)

5113 Database Design and Application. Prerequisite: 5003 or B AD 5153. Covers concepts and practices of data flows, data storage and information retrieval in computer information systems. Topics include data modeling, relational and non-relational databases, database management systems, principles of telecommunications, and management considerations. (Irreg.)

5203 Systems Architecture and Design. Prerequisite: 5113. Examines how technology, economics and organizational issues influence the structure of such computer information systems as mainframe, client/server, and netcentric. Explores the effective use of design concepts and tools including SDL, RAD, prototyping, objects, and case in a business enterprise. Includes a field design project. (Su)

5303 E-Business Architectures. Prerequisite: 5003 or B AD 5153. A study of the basic concepts of telecommunications and distribution processing and their applications to e-business. Focus is on managerial issues related to telecommunications. (Irreg.)

5313 Information Technology Management. Prerequisite: 5003 or B AD 5153. Examines the current issues and approaches to the management of information technology (IT). Through assigned reading, case discussions and projects, students confront the complex issues associated with IT management. The underlying theme of this course is that effective IT management requires an understanding of the IT, the organizational/commercial environment in which it will be applied, and basic business, organizational and managerial concepts. (Su)

5323 Project Management. Prerequisite: 5003 or B AD 5153. This course focuses on the management of systems development projects, including their implementation within an organization. The course begins with overviews of the software development context, system development approaches and project management concepts and then focuses on project planning, organizing and controlling. Contemporary and emerging trends in software development (F)

5403 Information Technology Enabled E-Business. Prerequisite: 5003 or B AD 5153. Focuses on the role played by information technology in creating the digital economy. The first part of the course explores e-business models and strategies. The second half deals with theoretical issues related to trading partners and the government, as well as internal issues involved with the development and implementation of e-business applications. (Irreg.)

5413 Object-Oriented Systems Development (Slishlisted with 4413). Prerequisite: 5113. Presents object-oriented theory, concepts, and practice for systems development. Concepts such as abstraction, identity, encapsulation,
G5423 Expert Systems/AI (Crosslisted with 4423). Prerequisite: 5003 or B AD 5153. A study of the use of expert systems and artificial intelligence. Topics include what-if analysis, knowledge engineering, artificial intelligence models, and management science models. Students design, build, and evaluate actual expert systems and write a paper. No student may earn credit for both 4423 and 5423. (Irreg.)

G5603 Advanced Database Management. Prerequisite: 5003, 5113. Covers the principles of design, use, and management of database technology including data warehouses from a manager's perspective. Involves a number of exercises using a multi-user relational database management system and associated tools to address typical business problems. (F)

G5613 Information Technology and Ethics. Prerequisite: 5003. Provides exposure to several topics concerning information technology and ethical issues as well as the impact of general technology on business and societal values. Foundation in moral theory provided as a basis for evaluation of the ethical issues concerning information technology. (Sp)

G5950 Special Topics. 1 to 3 hours. Prerequisite: 5003, 5113. May be repeated with change of content; maximum credit twelve hours. A study of current research and practice in information technology. (Irreg.)

G5960 Directed Readings. Prerequisite: graduate standing. 1 to 3 hours. May be repeated with change of topic; maximum credit six hours. Topics in management information systems. (Irreg.)

G5973 Topics in Information Systems. Prerequisite: 5003. May be repeated with change of content; maximum credit twelve hours. A study of current research and practice in information technology. (Irreg.)

G6723 Managing Technological Innovation and Use. Prerequisite: graduate standing. Examines theory and research on how individuals and organizations identify appropriate technologies, decide to invest in these technologies, and are able to successfully adopt and embed these technologies within work behaviors/processes. (Sp)

G6733 Organizational Impacts of Information Technology. Prerequisite: graduate standing. Examines theories, research and forecasts regarding the impacts of information technology on individuals, groups, organizations, value chains, industries, markets and societies. Primary emphasis is placed on understanding relationships among IT investments, IT impacts and business performance. (F)

G6743 Computer-Mediated Communication and Decision Making. Prerequisite: graduate standing. Examines theories and research on how communication and decision making are increasingly being mediated through information technologies. Behaviors by individuals, within groups, and within and across organizations will be studied. (Su)

G6960 Directed Readings in MIS. 1 to 3 hours. Prerequisite: graduate standing and permission of instructor. May be repeated as needed by Ph.D. students; maximum credit twelve hours. A study of current research and practice in information technology. (F, Sp, Su)

G6980 Research for Doctoral Dissertation. 1 to 3 hours. Prerequisite: permission of instructor. Research for doctoral dissertation. (F, Sp, Su)

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**Marketing (MKT)**

3013 Principles of Marketing. Prerequisite: Economics 1113, 1123, Accounting 2113, 2123, junior standing. Focuses on the relationship between the firm and its customers and the other members of the channel of distribution. Introduces students to: the marketing function of an organization; the environmental factors influencing marketing decisions; the discovery of market opportunities; the development of marketing strategy; and the development of marketing programs. (F, Sp, Su)

3023 Marketing Analysis. Prerequisite: 3013, Business Communication 2813, Management Information Systems 2113; or concurrent enrollment, and Economics 2843. A study of basic mathematical, statistical, accounting and financial analysis techniques and tools related to marketing. The methodology and planning of marketing research studies and methods for the analysis, interpretation and presentation of research data. (F, Sp, Su)

3213 Marketing Channels (Crosslisted with Supply Chain Management 3213). Prerequisite: 3013 and 3113 or concurrent enrollment in 3113. The processes of purchasing, materials management, physical distribution and the retail and wholesale institutions in the marketing channel. Focus is also placed on the selection, design and management of effective marketing channels with a view towards the development of an optimal distribution system for a firm. (F, Sp, Su)

3313 Electronic Marketing (Crosslisted with Supply Chain Management 3313). Prerequisite: 3013 and 3113 or concurrent enrollment in 3113. Addresses how businesses use the internet and other computer technologies as marketing tools. The emphasis is on understanding the unique opportunities and challenges associated with electronic marketing in order to better implement a firm's overall marketing strategy. (F)

3323 Purchasing and Buyer Behavior (Crosslisted with Supply Chain Management 3323). Prerequisite: 3013 and 3113 or concurrent enrollment in 3113. Consumer and organizational buying processes are examined. Individual and organizational decision-making frameworks, information technology, and the external environment are studied in the context of forming marketing strategies and tactics. Topics include make or buy decision making, supplier development and sourcing; supplier evaluation, selection, and management; buyer-seller relationships; purchasing capital goods and services; international and electronic commerce; information processing; social and economic influences; preference formation and change; and image creation and positioning. (F, Sp)

3333 Special Topics in Consumer and Industrial Buyer Behavior. Prerequisite: 3013, 3023. May not be repeated. Special topics in marketing. Content will vary and may be of an applied nature.

3343 Retailing Management (Crosslisted with Supply Chain Management 3343). Prerequisite: 3013, 3113 or concurrent enrollment in 3113. An analytical approach to the management of retail institutions. Addresses strategic and operating level decision making related to delivery of products and services to consumers, focusing on each of the four dimensions of the marketing mix. Includes modules on electronic commerce and ethical responsibility. (F, Sp, Su)

3413 New Product Development. Prerequisite: 3013 and 3113 or concurrent enrollment in 3113 or Business Administration 2100, Introduction to Business I and II. Focuses on the development of ideas for new or established organizations, creating an environment conducive to innovation, recognizing business opportunities, assessing the market, customer and competitive situation. The development of these ideas leads to a feasibility analysis. Examines the development of a sales and distribution structure (including franchising, distributorship, and licensing and alliances), understanding segmentation, targeting, and niching. (Irreg.)

3960 Honors Reading. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to study materials not usually presented in regular courses. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

4123 Negotiation and Selling. Prerequisite: 3013, 3113 or concurrent enrollment in 3113. Addresses the field sales effort of the firm with emphasis on tactical analysis. It examines professional selling as the negotiation process that provides the link between firm and customer with a focus on both the oral and written communication involved. The thrust of the course is application and the view is first line and tactical. (F, Sp, Su)

4133 Special Topics in Selling and Sales Management. Prerequisite: 3013, 3023. May not be repeated. Special topics in marketing. Content will vary and may be of an applied nature. (Irreg.)

4153 Integrated Marketing Communications. Prerequisite: 3013 and 3113 or concurrent enrollment in 3113. Examines the promotional element of the marketing mix. It focuses on the management of promotional programs with emphasis on the interaction and coordination of advertising, professional selling, and sales promotions. The course will provide a mix of academic strategies, marketing tools, and hands-on promotional planning. (F, Sp, Su)

4223 Logistics Management (Crosslisted with Supply Chain Management 4223). Prerequisite: 3013, 3113 or concurrent enrollment in 3113. The physical supply and distribution function in business management, including channel selection, transportation, facility location and materials management; concentrates on the analytical and managerial methods necessary for the development and control of an integrated logistics system. (F, Sp)

4333 Marketing Strategy and Policy. Prerequisite: 3013, 3023. Should be taken in the student's last semester. Major topics addresses are strategic marketing, product management, pricing management and marketing ethics. (F, Sp, Su)

4343 Special Topics in Marketing Strategy and Policy. Prerequisite: 3013, 3023, 3323, 4153. May not be repeated. Special topics in marketing. Content will vary and may be of an applied nature.
G5233 Seminar in Consumer Behavior. Prerequisite: 5063, permission (Director, Price College of Business Graduate Programs). Brand loyalty and the behavior implications and requirements of those models. (Irreg.)

G5243 Applied Multivariate Statistics (Crosslisted with Business Administration 6243). Prerequisite: Ph.D. standing or permission of instructor; permission (Director, Price College of Business Graduate Programs). Multivariate data analysis with computer applications—introduction, survey, and computer applications—factor analysis, multidimensional scaling, cluster analysis, regression, analysis of variance, canonical analysis, discrimination analysis. (Sp)

G6273 Behavioral Analysis in Management and Marketing (Crosslisted with Management 6273). Prerequisite: graduate standing and permission (Director, Price College of Business Graduate Programs). Addresses personal and interpersonal issues in marketing and management. Application of social science theory to explain the behavior of organization members. (Irreg.)

G6283 Marketing Theory and Thought. Prerequisite: graduate standing and permission (Director, Price College of Business Graduate Programs). Reviews the major theoretical perspectives in marketing. Particular emphasis is placed on understanding and appreciating the historical development of marketing theory and thought. (E Sp)

G6293 Strategic Marketing and Management (Crosslisted with Management 6293). Prerequisite: graduate standing and permission (Director, Price College of Business Graduate Programs). Reviews the major theories, concepts and frames of reference regarding strategic marketing and management. (Irreg.)

G6393 Current Issues in Marketing. Prerequisite: graduate standing and permission (Director, Price College of Business Graduate Programs). Addresses leading theoretical and research issues that are currently prominent in the marketing discipline. The specific content will be structured according to the particular interests and expertise of the marketing professor teaching the course.

G6513 Global Business and the Environment (Crosslisted with Management 6513). Prerequisite: graduate standing and permission (Director, Price College of Business Graduate Programs). Examines the complex relationship between an organization and the multiple markets it operates in globally. Includes organizational structure, adaptation of business functions to effectively compete in global markets, assessing opportunities in overseas markets, and assessing the performance of organizations in global markets. (F)

G6960 Directed Readings in Marketing. 1 to 4 hours. Prerequisite: graduate standing; permission of instructor, permission (Director, Price College of Business Graduate Programs). May be repeated as needed by Ph.D. students. Special reading programs are designed to enable graduate students (1) to extend their study to fields of marketing that are not covered in other courses and/or (2) to provide an opportunity for more extensive or intensive study of subjects covered in other courses. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)
Mathematics (MATH)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus. ACT/SAT scores are valid for placement during a freshman's entry year only.

Explanation of Course Numbers

In the Department of Mathematics the second digit indicates the area within the department: 1 — miscellaneous; 2 — mathematics education; 3 — algebra; 4 — analysis; 5 — foundations and logic; 6 — geometry; 7 — probability and statistics; 8 — topology; 9 — research. The third digit identifies the course within the level and area.

0113 Elementary Algebra. Prerequisite: completion of placement test. For students who score in the lowest bracket on the placement test. A review of beginning algebra including polynomial arithmetic, solving equations, graphing, inequalities, and the quadratic equation. Not acceptable for degree credit at the University of Oklahoma. (F, Sp, Su)

015 Fundamental Algebra. Prerequisite: placement test. Combines the course content of Math 0113 and 0123. A review of beginning algebra including polynomial arithmetic, solving equations, graphing, inequalities, rational expressions, exponents and radicals, imaginary and complex numbers, quadratic equations, systems of linear equations. Not acceptable for degree credit at the University of Oklahoma. (F, Sp, Su)

0123 Intermediate Algebra. Prerequisite: 0113 at OU, or satisfactory score on the placement test or satisfactory score on the ACT/SAT. Properties of real numbers, equations and inequalities, algebra of rational expressions, exponents and radicals, introduction to quadratic equations, functions and graphs, systems of linear equations. Not acceptable for degree credit at the University of Oklahoma. (F, Sp, Su)

1473 Mathematics for Critical Thinking. Prerequisite: 0123 at OU, or satisfactory score on the placement test, or satisfactory score on the ACT/SAT. A study of the mathematics needed for the critical evaluation of quantitative information and arguments including logic, critical appraisal of graphs and tables; use of simple mathematical models and an introduction to elementary statistics. (F, Sp, Su) [I-M]

1503 Introduction to Elementary Functions. Prerequisite: 0123 at OU, or satisfactory score on the placement test, or satisfactory score on the ACT/SAT. Review of basic algebraic skills such as multiplying and factoring polynomials, rational expressions, linear equations and inequalities, exponents and radicals, absolute values. Other topics include the concept, notation, and algebra of functions, functions of linear, polynomial, rational, exponential, and logarithmic type, systems of equations. A student may not receive credit for this course and 1643. (F, Sp, Su) [I-M]

1523 Elementary Functions. Prerequisite: 1503 at OU, or satisfactory score on the placement test, or satisfactory score on the ACT/SAT. Review of function concepts. Topics covered include properties of functions, exponential and logarithmic functions, trigonometric functions and their inverses by unit circle and triangle approaches, trigonometric equations and identities, simple conic sections, polar coordinates, Demoviere's theorem, discrete algebra, induction, limits and continuity. (F, Sp, Su) [I-M]

1643 Precalculus for Business, Life and Social Sciences. Prerequisite: 0123 at OU, or satisfactory score on the placement test, or satisfactory score on the ACT/SAT. Review of basic algebra skills. Topics covered include linear functions, exponential and logarithmic functions, systems of linear equations and inequalities, matrices and operations on matrices, linear programming, introductory trigonometry, elementary probability and statistics. A student may not receive credit for this course and 1503. (F, Sp, Su) [I-M]

1743 Calculus I for Business, Life and Social Sciences. Prerequisite: 1523 or 1643 at OU, or satisfactory score on the placement test, or satisfactory score on the ACT/SAT. Topics in differentiation and integration of polynomial, exponential and logarithmic functions. Applications to the business, life and social sciences. A student may not receive credit for this course and 1743. (F, Sp, Su) [I-M]

1823 Calculus and Analytic Geometry I. Prerequisite: 1523 at OU, or satisfactory score on the placement test, or satisfactory score on the ACT/SAT. Topics covered include equations of straight lines; conic sections; functions, limits and continuity; differentiation; maximum-minimum theory and curve sketching. A student may not receive credit for this course and 1743. (F, Sp, Su) [I-M]

2123 Calculus II for Business, Life and Social Sciences. Prerequisite: 1743. Differentiation and integration of exponential and logarithmic functions; simple differential equations; partial derivatives; double integrals, probability. Applications to the business, life and social sciences. A student may not receive credit for this course and 2423. (F, Sp, Su) [I-M]

2213 Mathematical Systems. Prerequisite: plane geometry, intermediate algebra, enrollment in elementary teacher's program. A systematic analysis of arithmetic and a presentation of intuitive algebra and geometry. Not open to students in the University College. (F, Sp, Su)

2423 Calculus and Analytic Geometry II. Prerequisite: 1823. Integration and its applications; the calculus of transcendental functions; techniques of integration; and the introduction to differential equations. A student may not receive credit for this course and 2123. (F, Sp, Su) [I-M]

2433 Calculus and Analytic Geometry III. Prerequisite: 2423. Polar coordinates, parametric equations, sequences, infinite series, vector analysis. (F, Sp, Su)

2443 Calculus and Analytic Geometry IV. Prerequisite: 2433. Vector calculus; functions of several variables; partial derivatives; gradients, extreme values and differentials of multivariable functions; multiple integrals; line and surface integrals. (F, Sp, Su)

2513 Discrete Mathematical Structures. Prerequisite: 2423 or concurrent enrollment. A course for math majors or prospective math majors. Provides an introduction to discrete concepts such as finite sets and structures, and their properties and applications. Also exposes students to the basic procedures and styles of mathematical proof. Topics include basic set theory, functions, integers, symbolic logic, predicate calculus, induction, counting techniques, graphs and trees. Other topics from combinatorics, probability, relations, Boolean algebras or automata theory may be covered as time permits. (F, Sp, Su)

G3113 Introduction to Ordinary Differential Equations. Prerequisite: 2443 or concurrent enrollment. Duplicates two hours of 3413. First order ordinary differential equations, linear differential equations with constant coefficients, Laplace transformations, power-series solutions of differential equations, Bessel functions. (F, Sp, Su)

3213 Data Analysis and Geometric Systems. Prerequisite: plane geometry, intermediate algebra, 2213, enrollment in elementary teacher's program. Algebra and the structure of number systems, functional relationships, informal geometry. (F, Sp)

G3333 Linear Algebra I. Prerequisite: 2433 or permission of instructor. Systems of linear equations, determinants, finite dimensional vector spaces, linear transformations and matrices, characteristic values and vectors. (F, Sp, Su)

G3343 Linear Algebra II. Prerequisite: 3333. Diagonalization, inner product spaces, applications, and other advanced topics in finite and infinite dimensional vector spaces. No student may earn credit for this course and 4373 or 5373. (F, Sp, Su)

G3413 Physical Mathematics I. Prerequisite: 2443 or concurrent enrollment. Complex numbers and functions. Fourier series, solution methods for ordinary differential equations and partial differential equations, Laplace transforms, series solutions, Legendre's equation. Duplicates two hours of 3113. (F)

G3423 Physical Mathematics II. Prerequisite: 2443, 3413. The Fourier transform and applications, a survey of complex variable theory, linear and nonlinear coordinate transformations, tensors, elements of the calculus of variations. Duplicates one hour of 3333 and one hour of 4103. (Sp)

G3513 Foundations of Analysis. Prerequisite: 2433 or concurrent enrollment. The real number system, sequences of numbers, series of numbers, limits and continuity of functions, topology and continuity on the real line. (F, Sp, Su)

G3613 Modern Geometry. Prerequisite: 1823 or 1743. An introduction to geometry including axiomatics, finite geometry, convexity, and classical Euclidean and non-Euclidean geometry. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. Overall grade point average of 2.50 or better. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly
scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G4033 Applied Matrix Models. Prerequisite: 3333 and either a programming course or permission of instructor. Solution of systems of m linear equations in m unknowns; solution of m linear equations in k unknowns; linear programming; eigenvalue and vector problems; matrix models selected from various areas such as ecology, voting systems, city street sweeping, infectious diseases, population predator prey systems, heat transfer in frozen soil, network analysis, psychology, sociology, Markov processes. (F)

G4073 Numerical Analysis I. Prerequisite: 3113 or 3413. Solution of linear and nonlinear equations, approximation of functions, numerical integration and differentiation, introduction to analysis of convergence and errors, pitfalls in automatic computation, one-step methods in the solutions of ordinary differential equations. (F)

G4083 Numerical Analysis II. Prerequisite: 3113 or 3413; 4073 or Electrical Engineering 4713; 3333 or 4373 or Biostatistics and Epidemiology 5563. Matrix inversion and related topics; numerical solution of ordinary differential equations, partial differential equations, integral equations and functional equations; numerical solution of eigenvalue problems and applications of functional analysis. (Alt. Sp)

G4103 Introduction to Functions of a Complex Variable. Prerequisite: 3113. Complex analytic functions, conformal mappings, complex integrals. Taylor and Laurent series, integration by the method of residues, complex analytic functions and potential theory. (Sp)

4113 Topics in Applied Mathematics (Slashlisted with 5113). Prerequisite: permission of instructor. May be repeated with change of content; maximum credit nine hours. Algebraic coding theory, linear finite state workings, numerical analysis of differential equations, asymptotic analysis, game theory or other subjects. No student may earn credit for both 4113 and 5113. (Irreg.)

G4163 Introduction to Partial Differential Equations. Prerequisite: 3113. Physical models, classification of equations, Fourier series and boundary value problems, integral transforms, the method of characteristics. (F, Sp)

4193 Introductory Mathematical Modeling. Prerequisite: 3113 or 3413, 3333, 4733 or 4753, or permission of instructor. Mathematics models are formulated for problems arising in various areas where mathematics is applied. Techniques are developed for analyzing the problem and testing validity of proposed model. (F, Sp)

4232 Specialized Topics and Methods—A Teachers’ Course. Prerequisite: 2433. Selected specialized topics and methods relevant to the secondary school mathematics curriculum. Content will vary, but will include problem solving, use of computers in teaching secondary school mathematics, specialized methods for teaching algebra and geometry, teaching probability and statistics at the secondary level, or other appropriate content and methods not covered in EDMA 2422. For major credit only for those in teacher certification programs. (F)

G4323 Introduction to Abstract Algebra I. Prerequisite: 3333 and 2513, or permission of instructor. Concepts from set theory, the system of natural numbers, extension from the natural numbers to the integers; semigroups and groups; rings, integral domains and fields. Duplicates one hour of 4383. (F, Sp)

G4333 Introduction to Abstract Algebra II. Prerequisite: 4323. Extensions of rings and fields, elementary factorization theory; groups with operators; modules and ideals; lattices. (F, Sp)

4373 Abstract Linear Algebra (Slashlisted with 5373). Prerequisite: 3333. Vector spaces over arbitrary fields, bases, dimension, linear transformations and matrices, similarity and its canonical forms (rational, Jordan), spectral theorem and diagonalization of quadratic forms. No student may earn credit for 3343 and 4373 or 5373, or for both 4373 and 5373. (F, Sp, Su)

G4383 Applied Modern Algebra (Slashlisted with 5383). Prerequisite: 3333. Topics from the theory of error correcting codes, including Shannon's theorem, finite fields, families of linear codes such as Hamming, Golay, BCH, and Reed-Solomon codes. Other topics such as Goppa codes, group codes, and cryptography as time permits. No student may earn credit for both 4383 and 5383. (Sp)

G4413 Intermediate Ordinary Differential Equations. Prerequisite: 3113 or 3413; 3333. Duplicates one hour of 4232. Topics selected from: linear systems of equations, integral equations, stability theory, existence and uniqueness criteria, perturbation theory, dynamical systems, boundary-value problems, numerical methods. (Irreg.)

G4433 Introduction to Analysis I. Prerequisite: 2513 or permission of instructor. Review of real number system. Sequences of real numbers. Topology of the real line. Continuity and differentiation of functions of a single variable. (F, Sp, Su)

4443 Introduction to Analysis II (Slashlisted with 5443). Prerequisite: 4433. Integration of functions of a single variable. Series of real numbers. Series of functions. Differentiation of functions of more than one variable. No student may earn credit for both 4443 and 5443. (Sp)

4513 Senior Mathematics Seminar. Prerequisite: senior standing or permission of instructor. Capstone course which synthesizes ideas from different areas of mathematics with emphasis on current topics of interest. The course will involve student presentations, written projects and problem solving. (F, Sp) [V]

4623 Convexity Theory I (Slashlisted with 5623). Prerequisite: 2513 and 3333, or permission of instructor. An introduction to the theory of convex sets. Topics include basic definitions and properties, separating and supporting hyperplanes, and combinatorial theorems of Caratheodory, Radon and Helly. No student may earn credit for both 4623 and 5623. (F)

G4643 Topics in Geometry and Combinatorics. Prerequisite: 3333. May be repeated with permission of instructor; maximum credit six hours. Topics may include convexity (convex sets, combinatorial theorems in finite dimensional Euclidean space), graph theory, finite geometries, foundations of geometry. (F, Sp)

4653 Introduction to Differential Geometry I (Slashlisted with 5653). Prerequisite: 2433 and 3333, or permission of instructor. Elementary theory of curves and surfaces in three-dimensional Euclidean space, differentiable manifolds, Riemannian geometry of two dimensions, Gauss Theorem Egregium. No student may earn credit for both 4653 and 5653. (F)

4663 Introduction to Differential Geometry II (Slashlisted with 5663). Prerequisite: 4653 or 5653. Intermediate theory of surfaces, covariant differentiation, geodesics, Gauss-Bonnet Theorem. Further topics may include: rigidity theorems, minimal surfaces, the Hopf-Rinow Theorem, the Hadamard Theorem, index of vector fields. No student may earn credit for both 4663 and 5663. (Sp)

4673 Graph Theory I (Slashlisted with 5673). Prerequisite: 2513 or 3513, or permission of instructor. An introduction to the theory of graphs. Topics include basic definitions, cutpoints, blocks, trees, connectivity and Menger’s theorem. No student may earn credit for both 4673 and 5673. (F)

G473 Mathematical Theory of Probability. Prerequisite: 2443 or concurrent enrollment. Probability spaces, counting techniques, random variables, moments, special distributions, limit theorems. (F)

4743 Introduction to Mathematical Statistics (Slashlisted with 5743). Prerequisite: 4733. Mathematical development of basic concepts in statistics: estimation, hypothesis testing, sampling from normal and other populations, regression, goodness-of-fit. No student may earn credit for both 4743 and 5743. (Sp)

G4753 Applied Statistical Methods. Prerequisite: 2123 or 2423 or permission of instructor. Estimation, hypothesis testing, analysis of variance, regression and correlation, goodness-of-fit, other topics as time permits. Emphasis on applications of statistical methods. (F, Sp, Su)

4773 Applied Regression Analysis (Slashlisted with 5773). Prerequisite: 3333, 4733 or 4753 or any statistical probability course at an equivalent level. The general regression problem of fitting an equation involving a single dependent variable and several independent variables, estimation and tests of regression parameters, residual analysis, selecting the “best” regression equation. No student may earn credit for both 4773 and 5773. (Alt. F)

G4793 Advanced Applied Statistics (Slashlisted with 5793). Prerequisite: 4743 or 4753 or equivalent. Survey of advanced applied statistical methods other than applied regression, including exploratory data analysis, analysis of multivariate data (princial components: analysis, multiple analysis of variance, cluster analysis, etc.), and introduction to non-parametric methods. No student may earn credit for both 4793 and 5793. (Alt. F)

4803 Topics in Mathematics. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit nine hours. Topics may include any area of mathematics; these will be substantial and fundamental subjects not offered in regular courses. If, Sp, Su)

G4853 Introduction to Topology. Prerequisite: 2433, 2513; or permission of instructor. Metric spaces and topological spaces, continuity, connectedness, compactness and related topics. (Sp)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Sp)

4991 Mathematics Capstone Course. Prerequisite: senior standing and concurrent or previous enrollment of one of 4081, 4193, 4333, 4443, 4463, 4853, or any topics course at the 4000 level. Students will write a senior thesis showing an understanding of a substantial area of modern mathematics. The thesis will be either an essay, the result of a computation, or a combination thereof. (F, Sp) [V]
G5103 Mathematical Models. Prerequisite: permission of instructor or admission to the M.S. program. May be repeated with change of content; maximum credit six hours. Mathematical models are formulated for problems arising in various areas in which mathematics has been applied. In each case, techniques are developed for analyzing the resulting mathematical problem, and this analysis is used to test the validity of the model. (Sp)

G5113 Topics in Applied Mathematics (Slashed with 4113). Prerequisite: permission of instructor. May be repeated with change of content; maximum credit nine hours. Algebraic coding theory, linear finite state workings, numerical analysis of differential equations, asymptotic analysis, game theory or other subjects. No student may earn credit for both 4113 and 5113. (Irreg.)

G5163 Partial Differential Equations. Prerequisite: 4163 or permission of instructor. First order equations, Cauchy problem for higher order equations, second order equations with constant coefficients, linear hyperbolic equations. (Sp)

G5173 Advanced Numerical Analysis I. Prerequisite: 4433, 4443 or permission of instructor. Topics may include: error analysis of numerical methods for optimization and initial value problems, numerical approximation of aspects of control problems. (Alt. F)

G5183 Advanced Numerical Analysis II. Prerequisite: 4433, 4443 or permission of instructor. Topics may include: analysis of spline approximations as a basis of the finite element method, error analysis for finite element approximation of elliptic and parabolic boundary value problems. (Alt. Sp)

G5333 Topics in Number Theory. Prerequisite: at least one mathematics course numbered above 3000, other than 3213, 4222, or 4322. May be repeated with change of content; maximum credit nine hours. Topics may include congruences, arithmetic functions, quadratic reciprocity, continued fractions, diophantine equations, primality testing, factorization methods, cryptography, quadratic forms and quadratic fields, computational number theory, additive number theory, coding theory, p-adic numbers. (Irreg.)

G5353 Abstract Algebra I. Prerequisite: 4323, permission of instructor. Groups, Sylow theorems, group actions, group presentations. Rings, ideals, polynomial rings, unique factorization, Fields, algebraic and transcendental extensions. (F)


G5373 Abstract Linear Algebra (Slashed with 4373). Prerequisite: 3333. Vector spaces over arbitrary fields, bases, dimension, linear transformations and matrices, similarity and its canonical forms (rational, Jordan), spectral theorem and diagonalization of quadratic forms. No student may earn credit for 3343 and 4373 or 5373, or for both 4373 and 5373. (F, Sp, Su)

G5383 Applied Modern Algebra (Slashed with 4383), Prerequisite: 3333. Topics from the theory of error correcting codes, including Shannon's theorem, finite fields, families of linear codes such as Hamming, Golay, BCH, and Reed-Solomon codes. Other topics such as Goppa codes, group codes, and cryptography as time permits. No student may earn credit for both 4383 and 5383. Duplicates one hour of 4323. (Sp)

G5403 Calculus of Variations. Prerequisite: 4433 or 4343 or 4613. Linear spaces, global and local theories of optimization, necessary conditions for relative extremum of integrals. (Irreg.)

G5423 Complex Analysis I. Prerequisite: 4433. The complex numbers, topologies of the extended plane and related sphere, elementary functions, power series, properties of general holomorphic functions. The integral of a complex-valued function over an oriented rectifiable curve, the classical theorems on integrals, Taylor and Laurent expansions, analytic continuation, introduction to Riemann surfaces. (Alt. F)

G5433 Complex Analysis II. Prerequisite: 5423. Selected topics from classical and modern function theory such as geometric theory, univalent functions, Hardy spaces and Nevanlinna theory. (Alt. Sp)

G5443 Introduction to Analysis II (Slashed with 4443). Prerequisite: 4433. Integration of functions of a single variable. Series of real numbers. Series and modern function theory such as geometric theory, univalent functions, power series, properties of general topologies of the extended plane and related sphere, elementary functions, holomorphic functions. The integral of a complex-valued function over an oriented rectifiable curve, the classical theorems on integrals, Taylor and Laurent expansions, analytic continuation, introduction to Riemann surfaces. (Alt. F)

G5453 Real Analysis I. Prerequisite: 4433 or permission of instructor. Lebesgue measure and integration theory, absolutely continuous functions, metric spaces. (F)

G5463 Real Analysis II. Prerequisite: 5453. General measure and integration theory, Banach spaces, topics from related areas. (Sp)

G5483 Wavelets. Prerequisite: 3113 and 3333. Fourier analysis on a finite cyclic group, the group of integers, and the real line. The matching pursuit algorithm. The Poisson summation formula and sampling. Multi-resolution analysis, various wavelet constructions (including those of Daubechies and Meyer) and filter banks. An introduction to the MATLAB wavelet toolbox. (F)

G5623 Convexity Theory I (Slashed with 4623). Prerequisite: 3333, 2513 or permission of instructor. An introduction to the theory of convex sets. Topics include basic definitions and properties, separating and supporting hyperplanes, and combinatorial theorems of Caratheodory, Radon and Helly. No student may earn credit for both 4623 and 5623. (Sp)

G5623 Convexity Theory II. Prerequisite: 5623 or permission of instructor. A continuation of the study of convex sets. Topics include Helly-type theorems, the Blaschke selection theorem, alternate characterizations of convex sets, convex polytopes and Euler's formula. (Sp)

G5653 Introduction to Differential Geometry I (Slashed with 4653). Prerequisite: 2433 and 3333, or permission of instructor. Elementary theory of curves and surfaces in three-dimensional Euclidean space, differentiable manifolds, Riemannian geometry of two dimensions, Gauss Theorem Egregium. No student may earn credit for both 4653 and 5653. (F)

G5663 Introduction to Differential Geometry II (Slashed with 4663). Prerequisite: 4653 or 5653. Intermediate theory of surfaces, covariant differentiation, geodesics, Gauss-Bonnet Theorem. Further topics may include: rigidity theorems, minimal surfaces, the Hopf-Rinow Theorem, the Hadamard Theorem, index of vector fields. No student may earn credit for both 4653 and 5663. (Sp)

G573 Graph Theory I (Slashed with 4733). Prerequisite: 2513 or permission of instructor. An introduction to the theory of graphs. Topics include basic definitions, cutpoints, blocks, trees, connectivity and Menger's theorem. No student may earn credit for both 4733 and 5733. (F)

G5683 Graph Theory II. Prerequisite: 5673 or permission of instructor. A continuation of the study of graphs. Topics include partitions, Eulerian and Hamiltonian graphs, planarity and colorability. (Sp)

G5693 Topics in Geometry and Combinatorics I. Prerequisite: permission of instructor. May be repeated with permission of instructor; maximum credit twelve hours. Topics may include convexity, combinatorial geometry, graph theory, or Riemannian geometry. (F, Sp, Su)

G5743 Introduction to Mathematical Statistics (Slashed with 4743). Prerequisite: 4733. Mathematical development of basic concepts in statistics: estimation, hypothesis testing, sampling from normal and other populations; regression, goodness of fit. No student may earn credit for both 4743 and 5743. (Sp)

G5763 Introduction to Stochastic Processes. Prerequisite: 4733 or permission of instructor. Stochastic processes in discrete time including random walks, recurrent events, Markov chains and branching processes. Processes in continuous time including linear and nonlinear birth-death processes and diffusions. Applications taken from economics, engineering, operations research. (Irreg.)

G5773 Applied Regression Analysis (Slashed with 4773). Prerequisite: 3333, 4733 or 4753 or any statistical probability course at an equivalent level. The general regression problem of fitting an equation involving a single dependent variable and several independent variables. Assumptions and limitations of regression, tests of regression parameters, residual analysis, selecting the “best” regression equation. No student may earn credit for both 4773 and 5773. (Alt. F)

G5793 Advanced Applied Statistics (Slashed with 4793). Prerequisite: 4743 or 4753 or equivalent. Survey of advanced applied statistical methods other than applied regression, including exploratory data analysis, analysis of multivariate data (principal components: analysis, multiple analysis of variance, cluster analysis, etc.), and introduction to non-parametric methods. No student may earn credit for both 4793 and 5793. (Alt. F)

G5803 Topics in Mathematics. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit nine hours. Topics may include any area of mathematics; these will be substantial and fundamental subjects not offered in regular courses. (F, Sp, Su)

G5853 Topology I. Prerequisite: 3513. Set theory, separation axioms, connectedness, compactness, continuity, metric spaces, nets and sequences. (F)

G5863 Topology II. Prerequisite: 5853. Metrization, product and quotient spaces, function spaces, dimension theory, Hilbert spaces, homotopy, simplicial complexes, continua. (Sp)

G5900 Graduate Mathematics Readings. 1 to 3 hours. Prerequisite: six-hour mathematics sequence at the 5000+ level. May be repeated with change of content; maximum credit twelve hours. Special background readings in advanced mathematical topics as preparation for later dissertation work. (F, Sp, Su)

G5910 Seminar—Analysis. 1 to 2 hours. Prerequisite: graduate standing. May be repeated with change of content; maximum credit twelve hours.

G5920 Seminar—Algebra and Theory of Numbers. 1 to 2 hours. May be repeated with change of content; maximum credit twelve hours. (F, Sp)
**Medieval and Renaissance Studies (MRS)**

3013 Medieval Literature in Translation. Prerequisite: junior standing or above. May be repeated with change of topic; maximum credit six hours. Topics will vary. A corpus of texts determined by genre, theme, period, or other consideration will be studied as a manifestation of medieval culture. In addition to formal literary qualities, attention will also be paid to social and political concerns which played a part in the genesis of the works in question. (Irreg.) [IV-WC]

3903 Seminar in Medieval Culture. Prerequisite: junior standing or above and permission of instructor. May be repeated with change of topic; maximum credit six hours. A theme of crucial importance to, or exemplary of, the defining features of the culture of the Middle Ages will be examined from an interdisciplinary perspective, using the materials and methods of literary study, history, art history, philosophy, religion, and related fields. More advanced students are referred to MRS 4903. (Irreg.) [IV-WC]

4900 Independent Study. Prerequisite: junior standing or above and permission of instructor. May be repeated; maximum credit six hours. Independent study on a topic in medieval and/or Renaissance studies. (F, Sp)

4013 Medieval Studies: Materials and Methods. Prerequisite: junior standing and permission of instructor. Builds on previous coursework at the 3000- and 4000-levels and provides a basis for advanced work in Medieval Studies. The course will examine selected texts with a focus on illuminated manuscripts. Instruction will be provided in research methodology in paleography, codicology, history, literature, art, and theology. Emphasis will be on 11th–16th century Europe. (Irreg.)

4903 Seminar in Medieval Culture. Prerequisite: junior standing or above and permission of instructor. May be repeated once with change of topic; maximum credit six hours. A theme of crucial importance to, or exemplary of, the defining features of the culture of the Middle Ages will be chosen and examined from an interdisciplinary perspective, using the materials and methods of literary study, history, art, history, philosophy, religion, and related fields. Less advanced students are referred to MRS 3903. (Irreg.) [IV-WC]

4990 Independent Study. Prerequisite: junior standing or above and permission of instructor. May be repeated; maximum credit six hours. Independent study on a topic in medieval and/or Renaissance studies. (F, Sp)

**Meteorology (METR)**

1014 Introduction to Weather and Climate. For non-science majors. A descriptive study of both short-term and long-term atmospheric phenomena, evenly divided between: (1) the structure and processes in the atmosphere that affect our every-day weather; and (2) climate and causes of climate change. Laboratory (F, Sp) [II-LAB]

1111 Orientation to Professional Meteorology. Prerequisite: Mathematics 1523 or higher. Required of all Meteorology majors during their first year of residence. Introduction to the School of Meteorology and its curriculum, faculty and staff. Presentations from different professional meteorologists introduce career options, challenges and opportunities in meteorology. (F)

2014 Introduction to Meteorology I. Prerequisite: Mathematics 1823 (C or better); corequisite: Physics 2514, Mathematics 2423. Introduces students to important phenomena and physical processes that occur in earth's atmosphere, as well as to the basic concepts and tools that are used to study atmospheric problems. Special emphasis is put on developing computational skills. This course focuses on atmospheric radiation, thermodynamics, stability, moisture, clouds, and precipitation. (F, Sp)

2024 Introduction to Meteorology II. Prerequisite: Grade of C or better in 2014 (or 1004), Mathematics 2423, Physics 2514; corequisite: Mathematics 2433, Physics 2524, Computer Science 1313. Introduces students to important phenomena and physical processes that occur in earth's atmosphere, with special emphasis on developing information technology skills. This course focuses on atmospheric dynamics, wind systems, and severe storms. Additional topics include: weather modification and public-private partnerships. (F, Sp)

2103 Physical Mechanics for Meteorology. Prerequisite: a grade of C or better in Physics 2514 and Mathematics 2443. Differential equations, vectors and vector calculus, Newtonian particle mechanics, projectiles, simple harmonic motion and atmospheric stability, central force motion and atmospheric vortices, moving coordinate systems and dynamics on a rotating planet, systems of particles and plane motion of rigid bodies as a prelude to fluid mechanics. (F)
2421 Aviation Meteorology. Prerequisite: Grade of C or better in 1014 or 2014. Understand tropospheric meteorology from the vantage points of: the pilot on the ground and in the air, the operating environment, and the meteorologist forecasting for the aviation community; the atmosphere; and the role of aviation in the world. May be repeated; maximum credit six hours. (F, Sp) [II-NL]

2603 Severe and Unusual Weather. Provide non-majors and majors a detailed descriptive account of the physical processes involved in the formation of various severe and unusual weather phenomena, including: thunderstorms, tornadoes, hail, storms, lightning, hurricanes, midlatitude snowstorms, lake effect snows, atmospheric optical effects, and global climate change. (F, Sp) [II-NL]

2903 Global Climate Change and Societal Impacts. Prerequisite: MATH 1523. Why is global warming controversial? Observed climate change and future changes. Natural and human causes of climate change. Greenhouse gases and the carbon cycle. Emphasis on student's field. May be repeated; maximum credit six hours. (Sp)

3970 Honors Seminar. Provides students an opportunity to explore in-depth topics not usually covered in regular coursework. May be repeated; maximum credit six hours. Projects covered vary. (3900-3999) (Sp)

3960 Honors Reading. Arranged. (3900-3999) (Sp)

3213 Physical Meteorology I: Thermodynamics. Prerequisite: Grade of C or better in 2423, Mathematics 2443, Physics 2524. This course introduces the physical processes associated with atmospheric composition, basic radiation and energy concepts, the equation of state, the zeroth, first, and second law of thermodynamics for dry and moist atmospheres, thermodynamic diagrams, statics, and atmospheric stability. (F)

3223 Physical Meteorology II: Cloud Physics, Atmospheric Electricity and Optics. Prerequisite: Grade of C or better in 3113, 3213, Mathematics 3113. Clouds and precipitation processes including the role of aerosols in cloud droplet and ice nucleation, growth of cloud particles into rain, snow, and hail by diffusion, coalescence, and aggregation; the Clausius-Clapeyron equation; application of cloud physics in cloud electrophysics and optical phenomena in the atmosphere; concepts of weather radar. (Sp)

3613 Meteorological Measurement Systems. Prerequisite: Grade of C or better in 2024 or 2413, Mathematics 2443, Physics 2524. Introduces the physical principles of meteorological instruments, discusses static and dynamic sensor performance, and explores the concept of meteorological instruments, to identify sensor limitations and major error sources. Furthermore, basic principles of error analysis are discussed. (F)

3890 Meteorology Internship. Prerequisite: junior standing. This course provides a mechanism for students to receive credit for their internship experiences with the national weather service, TV stations, the private sector or any other kind of agency or institution which provides internship opportunities for Meteorology majors. (F, Sp, Su)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor to keep students prepared for the major program. Covers material not usually presented in the regular courses. (3900-3999)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Projects covered vary. Devised with concepts not usually presented in standard coursework. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

4133 Atmospheric Dynamics I: Mid-Latitude Synoptic-Scale Dynamics. Prerequisite: Grade of C or better in 3123 or 3113, 3223. Concepts from kinematics, dynamics and thermodynamics used to characterize synoptic-scale atmospheric motion. Emphasis on quasi-geostrophic and baroclinic instability theory as based on understanding extratropical weather systems including cyclones and fronts. Linear theory is used to describe a variety of atmospheric waves and their role in synoptic-scale meteorology. (F)

4233 Physical Meteorology III: Radiation and Climate. Prerequisite: Grade of C or better in 3123 or 3113, 3223. Fundamental principles of radiation; absorption and emission of radiation; solar and terrestrial radiation; radiative transfer and heating rates; surface and global energy balances; atmospheric general circulation; natural climate variations; greenhouse climate change; stratospheric ozone depletion. (F, Sp)

4303 Statistical Meteorology. Prerequisite: Grade of C or better in Mathematics 2423, Computer Science 1513 or Computer Science 1323. Offers specialized topics in statistical meteorology such as the role of probability and statistics in decision making, exploring the experimental design and the physics of an underlying problem, sampling techniques, graphical presentation of data and model building. Emphasis will be placed on computational and statistical meteorological data. (F)

4305 Information Technology Skills for Meteorology (Slashlisted with 5330). Prerequisite: grade of C or better in CS 1313 or permission of instructor. This course teaches students to use computers and technology to process the inundation of meteorological data. Workstation skills, computer operating systems, programming languages, the internet, computer graphics, analysis and display of meteorological data. No student may earn credit for both 4330 and 5330. (Irreg.)

4424 Synoptic Meteorology Laboratory. Prerequisite: Grade of C or better in 3123 or 3113, 3223. This course is a lecture/laboratory course designed to provide students a physical understanding of atmospheric principles. Students are challenged to explain theoretical concepts and to demonstrate a mastery in understanding various physical processes in the practice of weather analysis and forecasting, surface and upper air analysis, fronts and wave cyclones, satellite meteorology, sounding analysis, thermodynamic diagram, cross sections, forecasting, NMC models, MOS, radar meteorology, and severe weather. Communications skills are emphasized. (F)

4433 Mesoscale Meteorology. Prerequisite: Grade of C or better in 4133, 4424. Structure and dynamics of convective and mesoscale phenomena including: mesoscale convective systems, severe thunderstorms, tornadoes, low-level jets, mountain waves and hurricanes. Discussion of the general behavior, characteristics, and dynamics of the formation and development of these phenomena, and the types of weather and hazards they produce. (Sp)

4491 Weather Briefing (Slashlisted with 5491). Prerequisite: Grade of C or better in 3113, 3213. Can be repeated for credit; maximum credit four hours. Students prepare and present daily weather briefing. The briefing should demonstrate their ability to synthesize current weather information on all scales, prepare a forecast and communicate this clearly and succinctly to an audience. No student may earn credit for both 4491 and 5591. (Sp)

4563 Satellite Meteorology. Prerequisite: Grade of C or better in 4123, 4424. Survey of satellite meteorology and climatology. History of meteorological satellites, radiation, orbital mechanics, satellite systems and data processing, basic image interpretation, cloud-drift winds, precipitation, temperature soundings, tropical cyclones, mesoscale, and synoptic-scale analysis and forecasting, cloud, water vapor and precipitation climatology, radiation budget. Laboratory (Sp-alternate)

4623 Radar Meteorology (Slashlisted with 5623). Prerequisite: Grade of C or better in 3223, 3613, Mathematics 3113. Develops quantitative relationships between physical characteristics of targets illuminated by a pulse of electromagnetic energy and the quantities measured by radars. (F)

4633 Hydrometeorology. Prerequisite: Grade of C or better in 3123 or 3133, 3223. Interdisciplinary emphasis on mesoscale precipitation processes, applications of new hydrometeorological observing systems, and on the interactions between meteorology and hydrology during flood events. (Irreg.)

4643 Physics of Planetary Atmospheres (Slashlisted with 5643). Prerequisite: Grade of C or better in 3113, 3213, Physics 2524, Mathematics 3113 or permission of instructor. This course will provide an integrated overview of planetary sciences, emphasizing planetary formation and evolution, the atmospheres of the planets, and atmosphere/surface interactions. The interactions among different systems will be emphasized. The goal is to provide insight on how we decipher the details of distant planets, and the differences and similarities among the planets of our solar system. No student may earn credit for both 4643 and 5643. (Irreg.)

4653 Air pollution Meteorology and Modeling (Slashlisted with 5653). Prerequisite: grade of C or better in 3113, 3213. Presents an overview of atmospheric dispersion problems and relevant weather systems with an emphasis on processes in the atmospheric boundary layer. Basic concepts and theories of turbulent transport and mixing are introduced and different dispersion theories and modeling approaches are discussed. No student may earn credit for both 4653 and 5653. (Irreg.)
G4803 Selected Topics in Meteorology. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit twelve hours. Topics may include aspects of atmospheric dynamics and severe-storm forecasting, experimental design, economic meteorology, weather modification, climate, radiation, aviation weather, etc. (Irreg.)

G4911 Senior Seminar (Capstone). Prerequisite: Grade of C or better in 3123, 3223. SAT course requirement. The instructor will guide senior Meteorology majors through a research project. Interdisciplinary topics will be encouraged, and library work will be required. Students will be paired with regular or adjunct faculty mentors. Senior doctoral students may serve as mentors with permission of the instructor. The result will be a written and oral presentation of the senior thesis. In addition, the instructor may present professional skills useful during the job search and interview phases as well as early employment. The skills will be useful whether the students are entering the job market or going to graduate school. (Sp)

G4913 Senior Seminar. Prerequisite: grade of C or better in 3113 and 3223. Satisfies the capstone course requirement. The instructor will guide senior Meteorology majors on a research project. Interdisciplinary topics will be encouraged and library work is required. Students will complete written and oral presentations of a senior thesis. (F, Sp) [V]

G4922 Senior Seminar II (Capstone). Prerequisite: Grade of C or better in 3123, 3223, 4911. Satisfies the capstone course requirement. The instructor will guide senior Meteorology majors through a research project. Interdisciplinary topics will be encouraged, and library work will be required. Students will be paired with regular or adjunct faculty mentors. Senior doctoral students may serve as mentors with permission of the instructor. The result will be a written and oral presentation of the senior thesis. In addition, the instructor may present professional skills useful during the job search and interview phases as well as early employment. The skills will be useful whether the students are entering the job market or going to graduate school. (F, Sp) [V]

G4990 Special Problems in Meteorology. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of subject matter. (F, Sp, Su)

G5103 Boundary Layer Meteorology. Prerequisite: 3113, Mathematics 3113. Transfer processes near the earth’s surface, turbulence, the planetary boundary layer, air mass modification, fog formation, pollutant transport.

G5113 Advanced Atmospheric Dynamics I. Prerequisite: Mathematics 3123 or permission of instructor. Basic fluid dynamics, equations of motion, vorticity dynamics, scale analysis, shallow water equations, linear wave dynamics, gravity waves, Rossby waves, quasi-geostrophic motions. (F)

G5123 Advanced Atmospheric Dynamics II. Prerequisite: 5113 or permission of instructor. Shallow water theory in a rotating reference frame, waves and instabilities, thermal convection and chaos, internal waves, anelastic approximation, baroclinic instability, symmetric instability and frontogenesis, general circulation of the atmosphere. (F)

G5223 Atmospheric Radiation. Prerequisite: 3213, Mathematics 3113, or permission of instructor. Theory of radiative transfer, spectra of gaseous molecules, use of band models for radiative calculations, interaction of solar radiation with atmospheres, infrared radiative transfer in atmospheres, radiative cooling and heating, scattering, climate and radiation, remote sensing. (Sp)

G5233 Cloud and Precipitation Physics. Prerequisite: 3223, Mathematics 3113. Development of thermodynamical relationships and generalized Clausius-Clapeyron equation, phase diagrams, atmospheric aerosols, review of hydrodynamics of flow past particles, collision and coalescence efficiency, theory of nucleation, precipitation growth, observations with radar, electrical state of the atmosphere. (F)

G5243 Atmospheric Electrodynamics. Prerequisite: permission of instructor. Global electrical circuit, fair-weather electricity, storm electrification, charging mechanisms, electrical discharges, lightning, thunder, instrumentation and observing systems, meteorological applications.

G5303 Objective Analysis. Prerequisite: 4123, Mathematics 3113, Engineering 3723, or equivalent. Introduction to techniques used in objective analysis of meteorological data; polynomial fitting; method of successive corrections; weighting functions; statistical methods; optimum interpolation; filter design; four-dimensional data assimilation.

G5323 Time Series Analysis I. Prerequisite: Mathematics 4713 or 4753, computer programming. Data collected from geophysical phenomena are considered as stochastic processes. The resulting time series are decomposed into autovariance spectra using Fourier, autocovariance and autoregressive methods. The spectra are interpreted from the viewpoint of estimation theory. Applications and practical aspects of these methods are examined. (Irreg.)

G5330 Information Technology Skills for Meteorology (Slashed with 4330). Prerequisite: Grade of C or better in CS 1313 or permission of instructor. The use of computers and networks to process the information of meteorology. Workstation skills, computer operating systems, programming languages, the Internet, computer graphics, analysis and display of meteorological data. No student may earn credit for both 4330 and 5330. (Irreg.)

G5344 Computational Fluid Dynamics I. Prerequisite: 3113 or Engineering 3223; Engineering 3723; Mathematics 3123; permission of instructor. Application of finite difference, spectral, and semi-Lagrangean methods to multidimensional Newtonian fluid flow problems, including well-posedness, conservation and stability, boundary conditions, conservation grid systems, and filtering. In addition, code development practices and the use of high-performance vector parallel and supercomputers will be addressed.

G5413 Advanced Synoptic Meteorology. Prerequisite: 4424, 4433, 5113 or permission of instructor. Theory and application of quasi-geostrophic dynamics, Q-vectors and isentropic potential vorticity, diagnostic studies of mid-latitude synoptic-scale systems, mesoscale structure of precipitation, structure and dynamics of fronts and jets. (Sp)

G5463 Advanced Forecasting Techniques. Prerequisite: 5113 or concurrent enrollment. Application of meteorological science to weather forecasting in real time. Laboratory (Irreg.)

G5491 Weather Briefing (Slashed with 4491). Prerequisite: graduate standing, permission of instructor. Can be repeated for credit; maximum credit four hours. Students prepare and present daily weather briefing. The briefing should demonstrate ability to synthesize current weather information on all scales, prepare a forecast and communicate this clearly and succinctly to an audience. No student may earn credit for both 4491 and 5491. (F, Sp)

G5503 Climate Dynamics. Prerequisite: 5113. Survey of past climates; climate variability; heat and water budgets of the atmosphere, oceans and land surfaces; the general circulation; climate modeling.


G5603 Meteorological Measurement Systems. Prerequisite: Mathematics 3113 or permission of instructor. Performance of measurement systems used to obtain meteorological observations. Includes systems for synoptic observations and special purpose systems for micro-meteorology, air pollution, etc. Effect of static, dynamic, sampling, round-off, and truncation error on data quality; comparison of analog and digital recording techniques. Laboratory (Irreg.)

G5613 Radar Meteorology. Prerequisite: Mathematics 3113, Physics 2524. Electromagnetic waves and propagation, principles of radar, weather echo signals, Doppler spectra of weather echoes, considerations for the observation of weather, rain measurements, observations of winds, storms and other phenomena, Doppler spectra of tornadoes, measurement of turbulence. (Irreg.)

G5623 Radar Meteorology. (Slashed with 4623). Prerequisite: Grade of C or better in 3223, 3613, Mathematics 3113, or permission of instructor. Develops qualitative relationships between physical characteristics of targets illuminated by a pulse of electromagnetic energy and the quantities measured by weather radar. Capabilities and limitations of radar designs are studied relating to meteorological applications. Doppler principles, including interpretation of data, are provided. Polumetric and phased array radar are introduced. No student may earn credit for both 4623 and 5623. (Irreg.)

G5643 Physics of Planetary Atmospheres (Slashed with 4643). Prerequisite: Grade of C or better in 3113 and 3213, Physics 2524, Mathematics 3113, or permission of instructor. This course will provide an integrated overview of planetary sciences, emphasizing planetary formation and evolution, the atmospheres of the planets, and atmosphere/surface interactions. The interrelationships among different systems will be emphasized. The goal is to provide insight on how we decipher details of distant planets, and the differences and similarities among the planets of our solar system. No student may earn credit for both 4643 and 5643. (Irreg.)

G5653 Air Pollution Meteorology and Modeling (Slashed with 4653). Prerequisite: Grade of C or better in 3113 and 3213. Presents an overview of atmospheric dispersion problems and relevant weather systems with an emphasis on processes in the atmospheric boundary layer. Basic concepts and theories of turbulent transport and mixing are introduced and different dispersion theories and modeling approaches are discussed. No student may earn credit for both 4653 and 5653. (Irreg.)

G5803 Topics in Applied Meteorology. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit twelve hours. Application of meteorological concepts and information to current environmental and meteorological problems on any scale.

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp) [V]

G5990 Independent Study. 1 to 4 hours. Prerequisite: graduate standing, permission of instructor. May be repeated with change of subject matter; maximum credit eight hours for master's degree students. Individual research
problems in meteorology, climatology, hydrometeorology, and other areas of the atmospheric and earth sciences.

G6103 Turbulence. Prerequisite: 5113, Mathematics 3113, 3123 or equivalents. Introduction to the evolution, structure and effects of turbulent flow. Learn to use a variety of theoretical and practical tools of discovery and analysis.

G6223 Convective Clouds and Storms. Prerequisite: 5113 or equivalent. Analytic and Boussinesq equations; Bersard convection; plume models; parameterization of cloud microphysics; three-dimensional models; Doppler radar analysis; observations of severe thunderstorms and tornados. (Irreg.)

G6344 Computational Fluid Dynamics II. Prerequisite: 5113, 5344, permission of instructor. Treatment of advanced numerical techniques and boundary conditions for solving the multi-dimensional unsteady Euler and Navier-Stokes equations. Topics include interpolation and finite volume, Godunov, Roe, positive definite, and flux-corrected/monotone differencing schemes. The formulation and application of adjoint codes for optimization and sensitivity analysis are also examined.

G6413 Topics in Advanced Mesoscale Meteorology. Prerequisite: twelve hours of graduate work in meteorology or equivalent; permission of instructor. May be repeated with change of subject matter; maximum credit twelve hours. Topics are drawn from areas of atmospheric physics and dynamics of severe storm forecasting, experimental design, eco-meteorology, weather modification or engineering meteorology. (Irreg.)

G6902 Professional Perspectives in Meteorology. Prerequisite: Graduate standing. This is a course presented in discussion format to develop the professional preparation of Ph.D. students. Course topics include: professional ethics; career planning; publishing papers, writing successful proposals, succeeding in academia; professional societies and national laboratories; dealing with the press and politicians, leadership and other aspects of the profession. (Irreg.)

G6970 Seminar. 1 to 3 hours. Prerequisite: graduate standing and permission. May be repeated with change of subject matter; maximum credit four hours for master's degree, or ten hours for doctor's degree. (F, Sp)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)

G6990 Special Problems. 1 to 4 hours. Prerequisite: graduate standing, permission of instructor. May be repeated with change of subject matter; maximum credit twelve hours for doctoral students. Individual research problems in meteorology and related areas conducted under faculty supervision. (F, Sp, Su)

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**Microbiology (MBIO)**

1005 Concepts in Biology (Crosslisted with Botany, Zoology 1005). Prerequisite: none, but high school or college chemistry is recommended. An introduction to the life sciences, focusing on the structure and function of organisms and their relationship to the environment. Fulfills General Education laboratory science requirement. Not open to students with credit for Botany 1114 or Zoology 1114. Laboratory (F, Sp, Su) [II-LAB]

2815 Introduction to Microbiology. Prerequisite: one course in college chemistry. Introduction to microorganisms as biological entities. Survey of the roles of microorganisms in the ecosystem. Application of microorganisms to industrial and environmental problems. Discussion of microorganisms as causes of human disease and response of hosts to microbial invasion. This course does not count for major credit in Microbiology or Botany. Laboratory (F, Sp, Su) [II-LAB]

3113 Cell Biology (Crosslisted with Botany, Zoology 3113). Prerequisite: Botany 1114 or Zoology 1114 and Chemistry 3013 or 3053. Introduction to the cell as a unit of life. A chemical and physical comparison of procyotatic and eucaryotic cells to include a discussion of cell metabolism, types of metabolic regulation and an analysis of ultrastructure. Emphasis will be placed on the dynamic changes in metabolism and ultrastructure which occur during the life of a cell. (F, Sp)

3812 Fundamentals of Microbiology Laboratory. Prerequisite: credit or concurrent enrollment in 3813. Fundamental microbiological methods: aseptic technique, culture methods, microscopy, metabolic and physiological tests, bacterial isolation and identification, environmental microbiology. Laboratory (F, Sp, Su)

3813 Fundamentals of Microbiology. Prerequisite: one course in biology and concurrent enrollment in Organic Chemistry. Cell structure of Procyotates and microbial Eucaryotes; survey of major groups of Eucaryotic and Procyotary protists; metabolic characteristics and ecological roles; growth, symbiotic relationships; genetics. (F, Sp)

†G3932 Instrumental Methods in Biology (Crosslisted with Botany 3932). Prerequisite: one of the following—Botany 4115; Microbiology 2815; Zoology 2124, or one course in biochemistry; Physics 2414 and 2424. Principles of analytical measurements; common categories of instruments; advantages and disadvantages of each method; examples are chosen from medical technology, environmental technology, biochemistry, physiology, etc. (F)

†G3942 Instrumental Methods Laboratory (Crosslisted with Botany 3942). Prerequisite: credit or concurrent enrollment in 3932. Hands-on experience with analytical instruments used in research and clinical labs; identification of components and simple repairs; understanding measurement principles; assay design and analysis of unknowns; treatment and comparison of data. Laboratory (F)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Projects covered will vary. Deals with concepts not usually presented in regular coursework. (By request)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

4713 Introduction to Nematology (Crosslisted with Botany, Zoology 4713; Slashlisted with 5713). Prerequisite: twelve hours of biology. Introduction to the field of nematology including nematodes of importance to human and veterinary medicine, agriculture and the environment. No student may earn credit for both 4713 and 5713. (Irreg.)

4803 Plant Microbe Interactions (Slashlisted with 5803; Crosslisted with Botany 4803). Prerequisite: twelve hours of biology. Biochemical, physiological, genetic, ultrastructural and molecular aspects of interactions between plants and their beneficial and harmful symbionts. No student may earn credit for both 4803 and 5803. (Irreg.)

4810 Special Topics (Slashlisted with 5810). 1 to 3 hours. Prerequisite: two courses in botany and permission. May be repeated with change of content; maximum credit three hours per semester, nine hours total. Topics will include newly developing areas of the discipline. Taught at an upper-division level based on previous coursework background. No student may earn credit for both 4810 and 5810 for the same course content. (Irreg.)

G4813 Ecology and Pathogenic Microbiology Lab. Prerequisite: 3812 and 3813 or equivalent. Course incorporates laboratory approaches and techniques for the study, characterization and manipulation of individual microorganisms and microbial communities involved in pathogenesis and environmental processes. Contemporary molecular techniques including PCR, recombinant DNA, DNA/RNA analysis; immunobiological analysis will be used. Students will also become acquainted with approaches to discover the mechanisms microorganisms use to establish their ecological niche in both pathogenic and environmental settings. Laboratory (Sp)

4822 Applications of Molecular Biology (Crosslisted with Botany 4822; Slashlisted with 5822). Prerequisite: eight hours of biology and permission of instructor; concurrent enrollment in 4812. Application of molecular biology to research in gene expression discussed with emphasis on how the molecular tools were developed, why they work and how they are used in current research. No student may earn credit for both 4822 and 5822.

G4823 Pathogenic Microbiology and Immunology. Prerequisite: 3812 and 3813. Study of pathogenic microorganisms and the diseases they produce. Morphology, physiology and pathogenic mechanisms of specific microorganisms. Diagnostic methods and culture techniques. Host resistance, control and epidemiology. Basic immunologic concepts, principles and techniques of serology. (F)

†G4833 Basic Immunology. Prerequisite: one semester of organic chemistry, and an introductory biology course, plus one of the following: 3813 and 3812, Zoology 2124, 3113, 3204, 3353 or biochemistry or graduate standing and permission. Fundamentals of immunohemistry, cellular immunology, immunoassays, and clinical immunology. (Sp)

4843 Introduction to Molecular Biology (Crosslisted with Botany, Zoology 4843; Slashlisted with 5843). Prerequisite: 3813 and 3812, or Botany 1114 or Zoology 1114 and one course in organic chemistry. Introduction to the characteristics and biological functions of nucleic acids and proteins in living cells with emphasis on nucleic acid replication, transcription, translation and regulation; also emphasis on the molecular aspects of microbial genetics—transformation, transduction and conjugation; and emphasis on molecular immunology and genetic engineering/recombinant DNA technology. No student may earn credit for both 4843 and 5843. (F, Sp)
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Microbiology (MBIO)

G4853 Physiology of Microorganisms. Prerequisite: 3813, 3812 and a course in organic chemistry. Diversity, metabolism, energetics and physiology of microorganisms. (Sp)

4864 Geomicrobiology (Slashlisted with 5864; Crosslisted with Geology 4864). Prerequisite: 3813 or permission of instructor. Life below the earth's surface. Bacterial degradation of pollutants. Petroleum microbiology. Role of microorganisms in cycling of carbon, nitrogen, sulfur, and metals. No student may earn credit for both 4864 and 5864. (F)

4873 Microbial Physiology and Molecular Biology Laboratory (Crosslisted with Botany 4873). Prerequisite: junior standing or permission of instructor. Current techniques to explore molecular aspects of gene expression and regulation. Experiments include: plasmid and phage propagation, nucleic acid purification, DNA and protein manipulation, and gene analysis. (F, Sp)

4893 Capstone in Microbiology. Prerequisite: 3 hours of calculus; 3813, 3812 and corequisite or prerequisite 4843. Combines laboratory research experiences, primarily in the areas of microbial diversity, physiology, and genetics, with an introduction to how in research in microbiology is carried out. Laboratory. (F, Sp) [V]

4950 Senior Thesis - Capstone. 1 to 6 hours. Prerequisite: 3813 and permission of instructor. May be repeated for credit; maximum credit six hours. A minimum total of 6 hours is required. This is a capstone course allowing students to carry out individual research projects under a faculty mentor. Students will present research results orally in a poster session, and by writing a senior thesis. Honors research credit may substitute for some or all of the senior thesis credit hours. (F, Sp, Su) [V]

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5032 Radioisotope Techniques (Crosslisted with Botany, Civil Engineering, Environmental Science 5032). Prerequisite: graduate standing or equivalent, permission, corequisite 5041. Fundamentals of detection and measurement of ionizing radiation with emphasis on radiotracer experimental design and interpretation of radiation effects and protection. (F)

G5041 Radioisotope Techniques Laboratory (Crosslisted with Botany, Civil Engineering, Environmental Science 5041). Corequisite: 5032. Laboratory techniques required for the utilization of radioisotopes in experimental work. Laboratory. (Sp)

G5293 Cytology Ultrastructure (Crosslisted with Botany, Zoology 5293). Prerequisite: twelve hours of biology. A descriptive survey of bacterial, plant and animal cells. Emphasis will be given to the ultrastructural morphology of cellular organelles and their functional significance. (F)

G5364 Transmission Electron Microscopy (Crosslisted with Botany, Zoology 5364). Prerequisite: permission. Introduction to the theory of transmission electron microscopy and practical instruction in specimen preparation, ultramicrotomy, specimen operation, photography and quantitative methods. Laboratory. (F)

G5374 Scanning Electron Microscopy (Crosslisted with Botany, Chemical Engineering, Zoology 5374). Prerequisite: basic chemistry; basic physics; demonstrated need; permission of instructor. Principles of scanning electron microscopy combined with training in the operation of the SEM and ancillary equipment. Students will be certified in the operation of all equipment. Sample preparation on a variety of samples and darkroom procedures will be performed. Independent project with oral report and poster required. Laboratory. (F)

G5453 Advanced Ecology and Evolutionary Biology (Crosslisted with Botany and Zoology). Prerequisite: general ecology. Required for students in the ecology and evolutionary biology doctoral program. An introduction to current research opportunities and research programs in ecology and evolutionary biology at the University of Oklahoma. Specific topics and lecturers will vary from week to week to give students a broad overview of ongoing research projects. (F)

G5471 Seminar in Ecology and Evolutionary Biology (Crosslisted with Botany and Zoology). Prerequisite: graduate standing. Two semesters of enrollment are required for students in the ecology and evolutionary biology doctoral program. An intensive, student-based seminar in which students present both proposals and ongoing progress reports on doctoral level research projects in ecology and evolutionary biology. (F, Sp)

G5620 Investigations in Microbiology. 1 to 6 hours. Prerequisite: fifteen hours of microbiology or permission. May be repeated with change of subject matter; nine hours for a Master's student and twelve hours for a Ph.D. student. Only six hours allowed with one professor. Fields of study: environmental microbiology, immunology, industrial microbiology, medical microbiology, medical mycology, microbial ecology, microbial genetics, microbial physiology, ultrastructural morphology, virology and molecular biology. (F, Sp, Su)

G5713 Introduction to Nematology (Crosslisted with Botany, Zoology 5713; Slashlisted with 4713). Prerequisite: twelve hours of biology. Introduction to the field of nematology including nematodes of importance to human and veterinary medicine, agriculture and the environment. No student may earn credit for both 4713 and 5713. (Irreg.)

G5803 Plant Microbe Interactions (Slashlisted with 4803; Crosslisted with Botany 5803). Prerequisite: twelve hours of biology. Biochemical, physiological, genetic, ultrastructural and molecular aspects of interactions between plants and their beneficial and harmful symbionts. No student may earn credit for both 4803 and 5803. (Irreg.)

G5810 Special Topics (Slashlisted with 4810). 1 to 3 hours. Prerequisite: two courses in botany and permission. May be repeated with change of content; maximum credit three hours per semester, nine hours total. Topics will include newly developing areas of the discipline. Taught at an upper-division level based on previous course background. No student may earn credit for both 4810 and 5810 for the same course content. (Irreg.)

G5812 Applications of Molecular Biology Laboratory (Crosslisted with Botany 5812; Slashlisted with 4812). Prerequisite: concurrent enrollment in 5822. Current techniques to explore molecular aspects of gene expression and regulation. Experiments include: plasmid and phage propagation, nucleic acid purification, DNA and protein manipulation, and gene analysis. No student may earn credit for both 4812 and 5812.

G5822 Applications of Molecular Biology (Crosslisted with Botany 5822; Slashlisted with 4822). Prerequisite: eight hours of biology and permission of instructor; concurrent enrollment in 5812. Application of molecular biology to research in gene expression discussed with emphasis on why the molecular tools were developed, why they work and how they are used in current research. No student may earn credit for both 4822 and 5822.

G5833 Industrial and Applied Microbiology. Prerequisite: 4843 and 4853 and one semester of calculus. The application of fundamental principles of microbiology to industrial fermentations and processing, food manufacture and preservation and environmental quality and sanitation. (F odd-numbered years)

G5843 Introduction to Molecular Biology (Crosslisted with Botany, Zoology 5843; Slashlisted with 4843). Prerequisite: 3813 and 3812, or Botany or Zoology 1114, one course in organic chemistry. Introduction to the characteristics and biological functions of nucleic acids and proteins in living cells with emphasis on nucleic acid replication, transcription, translation and regulation; also emphasis on the molecular aspects of microbial genetics—transformation, transduction and conjugation; and emphasis on molecular immunology and genetic engineering/recombinant DNA technology. No student may earn credit for both 4843 and 5843. (F, Sp)

G5864 Geomicrobiology (Crosslisted with 4864; Crosslisted with Geology 5864). Prerequisite: 3813 or permission of instructor. Life below the earth's surface. Bacterial degradation of pollutants. Petroleum microbiology. Role of microorganisms in geochemical cycling of carbon, sulfur, and metals. No student may earn credit for both 4864 and 5864. (F)

G5883 Microbial Genetics. Prerequisite: 3813 and 3812, or cell biology; molecular biology and biochemistry. Use of bacterial genetics to study biological phenomena at the molecular level; use of recent technological advances, including recombinant DNA, to aid genetic analysis. (F even-numbered years)

G5893 Genetics and Plasmids and Bacterial Viruses. Prerequisite: 3813 and 3812, or 3113 and 4843 and biochemistry recommended. Plasmids and bacteriophages will be considered with respect to replication, the regulation of gene expression, transposition and specialized recombination. Strategies of bacterial virus reproduction will also be emphasized. (Sp even-numbered years)

G5910 Problems in Natural Science (Crosslisted with Botany, Physics, Zoology 5910), 1 to 2 hours. Prerequisite: admission to candidacy for the degree of Master of Natural Science. (F, Sp, Su)

G5971 Seminar in Microbiology. Prerequisite: permission. Required of all graduate students in microbiology. May be repeated; maximum credit two hours for the master's degree, six hours for the doctor's degree. Topics are selected from various areas of microbiology, and each student is called upon for discussion or formal presentations. No laboratory. (F, Sp)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours, maximum credit applicable toward degree, six hours. (F, Sp, Su)

G5990 Special Studies in Microbiology, 1 to 3 hours. Prerequisite: fifteen hours of microbiology, permission. May be repeated; maximum credit six hours. The student selects an area in which the student desires to read intensively, then selects a staff member who is an authority in that field, and together they plan a program for investigation of the literature. (F, Sp, Su)

G6003 Ecological Modeling (Crosslisted with Botany, Zoology 6003). Prerequisite: one computer course, one course in ecology, or permission of
instructor. Trains students to use modeling tools in their research and to gain greater ability to understand, appreciate, and criticize modeling work. Students will learn general procedure and principles with case studies of successful models in ecology and participate in course projects to gain hands-on experience in model development. (Ireg.)

G6813 Advanced Bacterial Metabolism. Prerequisite: 3813 and 3812, plus six hours of microbiology, biochemistry, organic chemistry or permission. Recent advances in bacterial metabolism will be covered with emphasis on unusual bacterial pathways and on the biotransformations of environmentally significant materials. (Sp odd-numbered years)

G6853 Recent Advances in Microbial Physiology. Prerequisite: 4843, 4853 and a class in biochemistry. Recent advances in microbial physiology will be covered with emphasis on current literature. (Sp even-numbered years)

G6873 Microbial Ecology. Prerequisite: 3813 and 3812 plus two courses in microbiology, or 3813 and 3812 plus one microbiology course and one ecology course; biochemistry; calculus; or permission. Advanced treatment of the development and interactions of microbial communities with their living and abiotic environment. Emphasis placed on experimental approaches and on the quantitative concepts of the subject matter. Topics include a kinetic evaluation of microbial activities, global carbon cycling, biogradeation of environmentally significant materials and techniques used in the study of microbial ecology. (F even-numbered years)

G6980 Research for Doctor’s Dissertation. 2 to 16 hours. (F, Sp, Su)

Military Science (M S)

1112 Fundamentals of Leadership and Management. Organization of the Army and ROTC, emphasizing the University of Oklahoma ROTC program. Career opportunities for ROTC graduates. Historical growth and development of the army, stressing the magnitude of management implications. The significance of military courtesy, discipline and customs. Development of leadership ability through practical exercises in rappelling, rifle/pistol marksmanship and wilderness skills. Laboratory (F)

1212 Intermediate Techniques of Leadership and Management. Prerequisite: 1112. Develops knowledge, understanding and skills in leadership, management, U.S. defense establishment, marksmanship and mountaineering techniques. Instruction focuses on leadership and management theory in the areas of human behavior and interpersonal communications. Laboratory (Sp)

1223 Techniques of Leadership and Management - Compression. This class combines course content of 1212 and 2414. Develops knowledge, understanding and skills in leadership, management, U.S. military organization, customs and courtesies, U.S. defense establishment as it relates to national power, along with marksmanship and mountaineering techniques. Instruction focuses on leadership and management theory in the areas of decision making and human behavior and interpersonal communications. Laboratory (F, Sp)

2223 Applied Leadership and Management. Prerequisite: 1112 and 1212 or 1223. Develops knowledge, understanding and skill in leadership and management techniques. Instruction focuses on how the leader functions in planning, organizing, controlling and evaluating organizational effectiveness. Additionally, instruction is given in land navigation and military drill and ceremonies. Laboratory (Sp)

2313 Applied Management Simulations. Prerequisite: one semester of Military Science or permission of the Professor of Military Science. Realistic simulation exercises which have been designed to illustrate particular management skills are utilized to teach management concepts. The program consists of the following management concepts: management problem analysis and decision making; management planning and organizing; management delegation and control; interpersonal skills required for effective management. Laboratory (F)

2413 Dynamics of the Military Team. Prerequisite: 2313. Develops knowledge, understanding and skill in land navigation, drill and ceremony, weapon maintenance and leadership. Instruction focuses on applying leadership and management theory to the area of organization effectiveness and developing unit morale. Additionally, the student will learn how to navigate using a map and how to conduct drill and ceremony. Laboratory (Sp)

2512 Basic Leadership Laboratory. Consists of Basic Camp at Fort Knox, KY for six weeks. Combines content of 1112, 1212, 1223, 2223, 2313, and 2413. Laboratory (Su)

2610 Introduction to Military History. 1 to 3 hours. May be repeated; maximum credit three hours. Exposure to the tenets of military history study. Students will attend four class meetings to grasp the fundamental precepts and will prepare a paper on each book assigned. Field trip to one of the nearby battlefields will be included. (F, Sp)

3113 Land Navigation and Tactics. Prerequisite: advanced standing in military science. Application of basic principles including marginal information; map symbols; military grid reference systems, map orientation; resection and intersection; use of compass; aerial photograph familiarization mission, organization and composition of basic military teams, principles of offensive and defensive combat stressing firepower, movement and communication, introduction to troop leading procedures. Laboratory (Sp)

3213 Leadership and Management. Prerequisite: advanced standing in military science. Theory, methods and principles for understanding leadership and behavior in groups; effects of attraction; effectiveness, orientation, ability and persuasiveness, transfer and development of leadership potential, control and coerciveness, status and esteem. Analysis of the leader’s role in directing and coordinating the efforts of individuals and small units in the execution of offensive and defensive tactical missions, to include communication systems, internal defense/development and the military team; intelligence gathering, and the role of the various branches of the Army. Laboratory (F)

3313 Advanced Leadership Laboratory. Prerequisite: 3213. Consists of Advanced Camp at Fort Lewis, WA for five weeks. Students are evaluated on their knowledge and implementation of Army leadership principles and skills, Army field craft, and garrison operations. Practical, hands-on application of material taught in 3113 and 3213. Laboratory (Su)

3610 Historical Military Leadership. 1 to 3 hours. Prerequisite: 2610 or permission of department chair. May be repeated; maximum credit three hours. Students will examine the personalities of selected military leaders through several sources. The studies will encompass the early career and continue to the culmination. Field trip to one of the nearby battlefields will be included. (F, Sp)

4113 Military Administration and Management. Prerequisite: 3113 and 3213. Develops knowledge, understanding and skills in the role of the United States Army, the Army Reserve, the National Guard, the organization, management and ethics of the U.S. Army Officer Corps, the functions and relationships of a commander and his staff and the preparation of administrative correspondence. Laboratory (F)

4212 Senior Seminar in Advanced Leadership. Prerequisite: 4212. Deals with the analysis and case studies of the great military leaders—primarily the great captains of antiquity, such as Gustavus Adolphus, Alexander the Great, and Hannibal, who have exercised outstanding leadership in combat. Focuses on leadership and application of the principles of war at the strategic, operational and tactical levels. Laboratory (F)

4213 Seminar in Leadership and Management. Prerequisite: advanced standing in military science. Analysis of selected leadership and management problems involved in staff organization and function, and military justice. Application of leadership principles, stressing responsibilities of the leader, and affording experience through practical exercises. Obligations and responsibilities of an officer on active duty; chain of command; and officer- enlisted relationships. Laboratory (Sp)

4222 Senior Seminar in Advanced Leadership. Prerequisite: 4212. Deals with the analysis and case studies of the great military leaders—primarily of the modern era, such as Frederick the Great, Napoleon, Ulysses S. Grant, etc. who have exercised outstanding leadership in combat. Focuses on leadership and application of the principles of war at the strategic, operational and tactical levels. Laboratory (Sp)

4510 Seminar in Military Leadership. 1 to 3 hours. Prerequisite: junior standing and permission of department. May be repeated with change of content; maximum credit nine hours. Students will learn various theories of leadership and organizational culture and gain practical experience in the application of these theories within a peer leadership setting. Additionally, the course may include elements of military history, social theory, ethics, and military law. (Ireg.)

4543 The American Military Experience. Prerequisite: 3113, 3213. Develops knowledge, understanding and a sense of historical-mindedness in future Army officers. Instruction focuses on the need to apply the lessons of history in the examination and treatment of contemporary military problems with which the Army is confronted A mandatory staff ride to one of several Oklahoma battlefields is included. (Sp)

4610 Comparative Military History. 1 to 3 hours. Prerequisite: 3610 or permission of department chair. May be repeated; maximum credit three hours. Students will examine events leading to national and world crisis. Focus points will be socio-economic as well as goals and personalities of political and military leaders. (F, Sp)

Course Descriptions
Modern Languages, Literatures and Linguistics (MLLL)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

2003 Introduction to World Literature (Crosslisted with English 2003). Prerequisite: English 1113. Introduction to idea and practice of comparative literary study. Focus will be on a particular body of literature (e.g., Italian post-war fiction, French-Canadian poetry of the nineteenth century; etc.) as shaped by other cultures and literature. Texts will be in original language and translation. (Irreg.) [IV-WC]

2123 Introduction to German Studies. Introduces major themes in German cultural history offering students analytical tools they can bring to the further study of German and/or other European literatures and cultures in translation. Specific topics may vary. This course does not satisfy the third semester Arts and Sciences language requirement. (F) [IV-WC]

3000 Literature in Translation. May be repeated with change of subject matter; maximum credit nine hours. Appreciation and analysis of poetry, novel, prose, drama, or film translated into English. (F, Su)

3043 Mythology and Folklore (Crosslisted with Anthropology 3043). The nature and function of myth and folklore in human societies and the uses to which the study of folklore have been put by anthropologists in both functional and culture-historical analyses of preliterate societies. (F, Su) [IV-WC]

3123 Russian Culture and Civilization. Considers the historical and cultural heritage of Russia through a study of its geography, history, religion, language, literature, and the fine arts. Allows students to appreciate the global perspectives and cultural diversity. [IV-WC]

3133 Soviet Cinema (Crosslisted with Film and Video Studies 3133). Prerequisite: Film and Video Studies 1013. Familiarizes students with the history of film in the Soviet Union, from the silent movies of its beginnings to its manifestation at the present time. No previous knowledge of the Russian language is required. Russian social and political issues explored through film. (F, Su)

3143 Dostoevsky and His Age. Prerequisite: junior standing. Examination of the life and literary works of Fyodor Dostoevsky, with special attention to the role the writer played in Russian and Western intellectual history. Reading assignments will include Crime and Punishment, The Brothers Karamazov, and several shorter works, all in English translation. (Irreg.) [IV-WC]

3213 Japanese Theater and Performance. Prerequisite: junior standing. A survey of performance traditions in Japan ranging from rituals to dance and theatre, from ancient to contemporary. Explores the role of theatre in society and the relation between performance style and daily behavior. (F) [IV-NW]

3223 Japan through Film and Literature. Prerequisite: junior standing. Introduces Japanese post-war society and culture with emphasis on 1945 to the present, as reflected in film and literature. Students will examine essential issues, including class, family, gender, work, education, and minorities, paying attention to the struggles between traditional cultural values and modern society. (Irreg.) [IV-NW]

3413 Arabic Literature and Culture. Prerequisite: junior standing. A survey of Arabic literature tradition and cultural history from the 4th century to the present. Covers themes and genres of the cultural heritage of Arabic-Islamic civilization, continuities and discontinuities between the classical and modern period, and background political and social changes. (F) [IV-NW]

3523 Survey of Russian Literature to 1917 in Translation. Prerequisite: junior standing. Reading, analysis and discussion of key works of Russian 19th century literature, including the major novels, plays, and poetry selections in English translation. This course does not satisfy the third semester Arts and Sciences language requirement. (F) [IV-WC]

3533 Survey of Russian Literature from 1917 in Translation. Prerequisite: Junior standing. Representative works of Soviet and post-Soviet literature are read and discussed. Selections of prose and poetry chosen from among symbolists, acmeists, futurists, populists, modernists, and post-modernists. This course does not satisfy the third semester Arts and Sciences language requirement. (Sp) [IV-WC]

3573 Arthurian Legend and Literature (Crosslisted with English 3573). Examination of the legend of King Arthur in European literature. Concentrate first on the historical Arthur, followed by major portion of semester on the medieval and modern literary texts concerning Arthur and the Round Table. All texts will be read in English translation. [IV-WC]

3633 Modern Japanese Literature and Culture. Prerequisite: junior standing. A survey of Japanese literature from the Meiji restoration (1868) onward, with attention to social, political, and cultural issues as well as literary theory. Topics will include Japan's "westernization," "naturalism," proletarian literature, movements, early post-war literature, and the "third new generation writers." (Sp) [IV-NW]

3643 Japanese Education Through Fiction. A discussion of Japanese education through fiction. Fiction is used as a "tool" to explore this complex subject, and the selected novels and short stories will be examined from a specific perspective. Topics will include the occupation reform, "education explosion," "exam hell," school violence and cram schools. [IV-NW]

3753 Modern Chinese Literature and Culture. Prerequisite: junior standing. Students will read Chinese literary texts in English translation and learn about the historical, political, social, and cultural contexts in which they were produced. (Sp) [IV-WN]

3843 Twentieth-Century European Culture and Identity. Prerequisite: junior standing. Offers and overview of twentieth-century European culture and identity. Students are made aware of a culture and people different from the United States. In an attempt to understand what makes Europe a unique entity, we will examine how political, social, and economic forces and events in Europe relate to cultural ideas and artistic productions. (F) [IV-WC]

3853 The Rise of Romanticism. Prerequisite: Honors' standing. Study of the rise of Romanticism by reading European literary, theoretical, and philosophical texts with emphasis on material from particular Romantic movements. Education, changing relationships and gender will be given consideration. (Irreg.) [IV-WC]

3943 German Cinema. Prerequisite: junior standing. This course will provide an overview of German cinema throughout the 20th century, with a focus on the cinematic representation of national identity and gender identity in Germany. We will examine the impact of shifting political structures on film production throughout German history, as well as influential theories of German national cinema. (F)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the Honors candidate to work on a special project in the student's field. (F, Sp)

4003 Movements in World Literature (Crosslisted with English 4003). Prerequisite: junior standing. May be repeated with change of subject matter; maximum credit nine hours. Focuses on texts within a literary movement (literature other than canonical American or British). Also attention to critical and theoretical questions about concepts such as genre, nation, national building, national identity, etc. (Irreg.) [IV-WC]

4113 Luso-Brazilian Civilization. Prerequisite: minimum of 30 hours earned. Taught in English. An introduction to Luso-Brazilian cultural history and literature through a series of readings and films. The course begins with the poetry of Luís de Camões and the discovery of Brazil, and ends with the impact of European immigrants in the 20th century on the literature and music of Brazil. (Sp) [IV-WC]

4173 Introduction to Francophone Literatures in Translation (Slashlisted with MLLL 5173). Prerequisite: senior standing. Examines the literary, social, and political issues forefronted by the Francophone literatures of West Africa, the Caribbean, and Polynesian Islands, Maghreb (chiefly Algeria, Tunisia, Morocco), and Quebec. (Sp) [IV-NW]

4443 Exploring Music in Literature: Poetry and Drama of Lorca. Prerequisite: junior standing. Explores the relationships that exist between music and literature in Lorca, including Spanish folklore, Flamenco as a socio-cultural phenomenon, focusing on ethnic identity, and contemporary orchestral compositions. (Irreg.) [IV-WC]

4553 Latin America in Its Literature: The Search for a Latin-American Identity. Prerequisite: junior standing. The course fosters an understanding of the political nature, impetus and implications of Latin-American literature. It examines stereotypes and the basis upon which they are constructed and develops an awareness of the varied identities reflected in Latin-American literature. (F) [IV-WC]

4663 Gender and Cross-Cultural Issues in Eastern European Women's Writing. Prerequisite: junior standing. Exploration of gender issues in cultures in flux and ideologies in turmoil through lectures, discussions, film screenings,
journal writing, and small group work. Texts, both written and visual, are examined within literary, historical, and sociological contexts. (Sp)

G4813 Techniques of Teaching a Foreign Language. An overview of the basic theoretical aspects which affect teaching and learning in foreign language education. Analysis of current methods and materials, with emphasis on the development of appropriate skills to put those methods into practice. (F)

G4823 Foreign Language in the Elementary School. Prerequisite: 4813; both courses may be taken concurrently. Special problems associated with teaching foreign languages in the elementary school: FLES and FLEX programs; immersion programs, content-based instruction; communicative teaching. 4970 Seminar. 1 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit six hours. Varied topics in literature in English translation. (Irreg.)

G5063 Early Literary Criticism. Prerequisite: graduate standing. An introduction to the main critical ideas of the West, ranging from Plato to Rousseau. Concepts like idealism, realism, nominalism, and materialism will be discussed with substantial readings from Plato, Aristotle, Horace, Longinus, St. Augustine, St. Thomas Aquinas, John Locke, Immanuel Kant, and Jean-Jacques Rousseau. (F)

G5073 Contemporary Literary Criticism. An introduction to contemporary linguistic, psychoanalytic, and sociological literary theory and criticism. Readings and discussions will include questions of methodology and will demonstrate how these methods can be applied to particular texts. (Sp)

G5173 Introduction to Francophone Literature in Translation (Slashlisted with MLL 4173). Prerequisite: graduate standing. Examines the literary, social, and political issues forefronted by the Francophone literatures of West Africa, the Caribbean and Polynesian Islands, Magreb (chiefly Algeria, Tunisia, Morocco), and Quebec. (Sp)

G5910 Problems in Research. 2 to 4 hours. Prerequisite: permission of instructor. May be repeated with change of content; maximum credit hours. An individual course of intensive research with the area and problem to be determined by the student and directing instructor. (Irreg.)

G5920 Field Research in Foreign Education. 1 to 3 hours. Prerequisite: 5833. Classroom oriented field research on the use of various methods of teaching foreign language in the classroom. Possible topics include aspects of language acquisition, evaluation, proficiency, communicative methods in foreign language education. (F, Sp, Su)

Applied Music

These courses take on the designator of the specific instrument or voice.

2000 Freshman and/or Sophomore Piano, Violin, etc. 1 to 2 hours. Prerequisite: permission of advisor and instructor. May be repeated; maximum credit toward B.F.A., B.M.A., B.M., and B.M. degrees. For freshman and sophomore music students studying in a secondary (or minor) performance area. (F, Sp, Su)

2010 Freshman and/or Sophomore Piano, Violin, etc., for Non-Performance Music Majors. 1 to 2 hours. Prerequisite: permission of advisor and instructor. May be repeated; maximum credit toward the B.F.A., B.M.A., B.M., or B.M. degree. For freshman and sophomore music students in the B.F.A., B.M., or B.M. degree programs who are studying in their principal performance area. (F, Sp, Su)

2020 Freshman and/or Sophomore Piano, Violin, etc., for Performance Majors. 2 to 3 hours. Prerequisite: permission of advisor and instructor. May be repeated; maximum credit toward the B.M. degree, eight hours. For freshman and sophomore music students studying in a secondary (or minor) performance area. (F, Sp, Su)

2970 Special Topics in Music. 1 to 3 hours. May be repeated with change of subject matter; credit changes each semester. Study of newly developed, experimental, or inter-disciplinary topics in music. 3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Consists of either reading topics or independent study designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program; junior or senior standing. May be repeated with change of subject; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework. 3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

4023 Senior Capstone-BFA degree. Prerequisite: MUTH 2622 and permission. Research and reading leading to a senior capstone paper in consultation with individual faculty. (F, Sp, V)

4970 Undergraduate Seminar. 1 to 3 hours. Prerequisite: permission of department. May be repeated. Maximum credit six hours. In-depth study of topics of interest. Subjects such as The Aesthetics of Music; Musical Criticism; Music in American Culture; Music of the American Indians; The Band as a Cultural Phenomenon; and the like, are illustrative of the topics that may be pursued. (Irreg.)

G5112 Bibliography and Research in Music. Prerequisite: graduate standing in music or music education. General and music bibliography; development of research skills in music. (F)

4020 Junior and/or Senior Piano, Violin, etc., for Performance Majors. 2 to 4 hours. Prerequisite: permission of adviser and instructor. May be repeated; maximum credit toward the B.M. degree fourteen hours. May be elected for two hours credit only during summer session. For junior and senior music students in the B.M. (Performance or Composition majors) degree program who are studying in the major performance area. (F, Sp, Su)

G5000 Master’s-Level Secondary Piano, Violin, etc. 1 to 2 hours. Prerequisite: graduate standing in music; permission of adviser and instructor. May be repeated; maximum credit eight hours on a given instrument (including voice). For master’s degree music students studying in a secondary (or minor) performance area. (F, Sp, Su)

G5010 Master’s-Level Piano, Violin, etc., for Non-Performance Music Majors. 1 to 3 hours. Prerequisite: graduate standing in music; permission of adviser and instructor. May be repeated; maximum credit eight hours on a given instrument (including voice). For master’s degree students other than performance majors in their major field. (F, Sp, Su)

G5020 Master’s-Level Piano, Violin, etc., for Performance Majors. 2 to 4 hours. Prerequisite: graduate standing in music; permission of adviser and instructor. May be repeated; maximum credit eight hours on a given instrument (including voice). For doctoral degree music students studying in a secondary (or minor) performance area. (F, Sp, Su)

G6000 Doctoral Secondary Piano, Violin, etc. 1 to 2 hours. Prerequisite: graduate standing in music, permission of adviser or instructor. May be repeated; maximum credit eight hours on a given instrument (including voice). For doctoral degree music students studying in a secondary (or minor) performance area. (F, Sp, Su)

G6010 Doctoral Piano, Violin, etc., for Non-Performance Music Majors. 2 to 3 hours. Prerequisite: graduate standing in music; permission of adviser and instructor. May be repeated; credit applicable toward applied music requirements for the Doctor of Musical Arts degree. Doctoral-level study of applied music for performance majors in their primary field. (F, Sp, Su)

Music (MUS)

2970 Special Topics in Music. 1 to 3 hours. May be repeated with change of subject matter; credit changes each semester. Study of newly developed, experimental, or inter-disciplinary topics in music. 3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Consists of either reading topics or independent study designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program; junior or senior standing. May be repeated with change of subject; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework. 3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated with change of subject; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

4023 Senior Capstone-BFA degree. Prerequisite: MUTH 2622 and permission. Research and reading leading to a senior capstone paper in consultation with individual faculty. (F, Sp, Su)

4970 Undergraduate Seminar. 1 to 3 hours. Prerequisite: permission of department. May be repeated. Maximum credit six hours. In-depth study of topics of interest. Subjects such as The Aesthetics of Music; Musical Criticism; Music in American Culture; Music of the American Indians; The Band as a Cultural Phenomenon; and the like, are illustrative of the topics that may be pursued. (Irreg.)

G5112 Bibliography and Research in Music. Prerequisite: graduate standing in music or music education. General and music bibliography; development of research skills in music. (F)

G6880 Doctor of Musical Arts Project. 2 to 8 hours. Prerequisite: admission to DMA degree program; permission of adviser and instructor. Research and/or creative endeavor leading to the completion of the final written project for the degree Doctor of Musical Arts. (F, Sp, Su)
**Music Education (MUED)**

1262 Beginning Instruments Lab I. Part of a two-semester sequence intended to equip instrumental music education students with basic performance and diagnostic techniques applicable to brass, woodwind, string, and percussion instruments for beginning-level students. (F, Sp)

1272 Beginning Instruments Lab II. Prerequisite: 1262. Second of a two-semester sequence intended to equip instrumental music education students with basic performance and diagnostic techniques applicable to brass, woodwind, strings, and percussion instruments for beginning-level students. (F, Sp)

1732 Introduction to Music Education. Prerequisite: for music students interested in school music teaching. An overview of school music teaching. Designed to enable students to make early career choices. Students will observe music teaching in schools, develop a philosophy of music education, study psychological foundations as applied to music teaching, and become familiar with the total school music curriculum and its place in the school program. (F)

1742 Introduction to Teaching Techniques in Music. Prerequisite: 1732. Second part of two-semester course sequence in music education. Sequential process of musical development, skills, content, methods, techniques, and materials in the following areas: singing voice, classroom listening, sight reading, movement, and music series books. (Sp)

2733 Music in Early Childhood Education. Music instruction-learning in the early childhood years; an application of Piaget's principles of learning and development to music curriculum in the preschool education of children. (F, Sp)

2743 Music for Classroom Teachers. Prerequisite: MUNMU 2742. Open to elementary education majors. Not open for credit to students in the School of Music. An introduction to effective methods, techniques and materials for teaching music to children in the elementary grades. (F, Sp)

3010 Field Experience I. Corequisite: 1732. Lab teaching experience required by the state Department of Education as part of teacher preparation sequence. Thirty to 45 hours of observations, part-time teaching, and committee meetings. (F, Sp)

3020 Field Experience II. Corequisite: 3723. Lab teaching experience required by the state Department of Education as part of teacher preparation sequence. Thirty to 45 hours of observations, part-time teaching, and committee meetings. (F, Sp)

3030 Field Experience III. Corequisite: 3733, or 3743, or 3752, or 3762. Lab teaching experience required by the state Department of Education as part of teacher preparation sequence. Thirty to 45 hours of observations, part-time teaching, and committee meetings. (F, Sp)

3043 Media and Technologies of Music Instruction. Current technologies used by music instructors in public schools: MIDI theory and applications; sequencing and composition software; sound reinforcement and recording techniques; video production; elementary graphic design and desktop publishing. (Sp)

3723 Teaching Vocal Music, K-3. Prerequisite: Music Theory 2622. Psychological foundations, teaching techniques and materials for vocal music instruction in kindergarten through grade three. Teaching techniques used in the Kodály, Orff and other contemporary approaches will be examined. (Sp)

3733 Teaching Vocal/General Music, 4-8. Prerequisite: 3723. Sequential process of music development, skills, content, methods, techniques and materials suited to students in grades 4-8. Special attention given to the boys' changing voices. (F)

3743 Teaching Choral Music, 9-12. Prerequisite: 3733. Organization and management of choirs, repertoire appropriate to JH/SHS choirs, rehearsal techniques, programming considerations, use of audio equipment, field experiences. (F, Sp)

3752 Teaching Instrumental Music, 4-8. Prerequisite: junior standing in music. Materials and methods for teaching instrumental music in grades 4-8. Study on the selection of students, literature appropriate to ensemble and grade, rehearsal procedures, teaching strategies, psychological learning theory underlying teaching strategies, and evaluation of student learning. (F)

3762 Teaching Instrumental Music, 9-12. Prerequisite: 3752. Administrative procedures and methods for teaching instrumental music in grades 9-12. Study of literature appropriate to ensemble and grade, score preparation, teaching style, problems related to contests, festivals, trips, scheduling, and measurements and evaluation of student learning. (Sp)

3773 Teaching Multicultural Music. Prerequisite: junior standing in music education. Designed for the music education major as an introduction to teaching the musical art forms of diverse groups and cultures within the United States and throughout the world. Building on basic principles of contemporary learning theory, this course develops knowledge and understanding of global musical art forms through active multi-sensory teaching approaches. (Sp)

3782 Internship in Piano Teaching. Prerequisite or corequisite: 3783. Teaching of children from preschool through high school and private lessons under faculty supervision. (F, Sp)

3783 Piano Pedagogy. Prerequisite: required for piano majors and elective for other fields. Basic study of concepts necessary for successful private and class piano teaching at the elementary level. Student teaching required. (Alt. F)

3792 Internship in Piano Teaching. Prerequisite or corequisite: 3782 and 3783. Continuation of teaching skills begun in 3782. Teaching of children from preschool through high school and private lessons under faculty supervision. (F, Sp)

3793 Piano Pedagogy. Prerequisite: 3783. Required for piano majors and elective for other fields. Continuation of skills begun in 3783. Basic study of concepts necessary for successful private and class piano teaching at the intermediate level. Student teaching required. (Alt. Sp)

4042 Capstone Seminar. Prerequisite: concurrent enrollment in 4050 and 4060. The development of a teaching portfolio including a reflection log of teaching activities, written evaluations of video and audio episodes, and a summary of teaching successes and areas to be improved. (F, Sp) [V]

4050 Teaching Experiences in the Elementary School. Prerequisite: formal admission to student teaching; corequisite: 4042. Laboratory activities in music classes in elementary schools under competent direction and supervision; observation, orientation, and classroom teaching experiences supported by seminars and conferences focusing on the problems of teaching. Prospective teachers receive instruction, aid, and constructive supervision in classroom management, evaluation of pupil behavior, methods of teaching, selection of teaching materials, and school-home-community relations. (F, Sp)

4060 Teaching Experiences in the Secondary School. Prerequisite: formal admission to student teaching; corequisite: 4042. Correlation of theory and instructional practices in music classes in secondary schools; supervised observation, teaching, classroom management, and evaluation; acquaintance with the administration of a secondary school and the school program; selection and use of appropriate instructional materials; conferences with supervisors. (F, Sp)

G4752 Marching Band Techniques. Prerequisite: junior standing in music education. Organization of the marching band and its instrumentation, selecting and adapting music, marching fundamentals, marching styles and trends, planning and charting half-time shows, parade routines, auxiliary units and drum major signals. (Sp)

4762 String Pedagogy. Prerequisite: MUTE 3252, and junior standing. String teaching techniques in large and small group settings. Emphasis is on familiarizing students with teaching strategies for string classes in public schools. (Sp)

G4892 Introduction to Voice Pedagogy. Prerequisite: eight hours of voice, permission. Study of vocal teaching techniques including anatomy of vocal tract, physiological process and acoustical properties. Reperatory for high school students. (F)

4970 Undergraduate Seminar. 1 to 3 hours. Prerequisite: permission of department. In-depth study of topics of interest as appropriate to the field of study. Subjects such as Music in the Two-Year College, The Aesthetic Dimensions of Music Education; The Teaching of Ethnic Music; The Psychology of Music; and the like, are illustrative of the topics that may be pursued. (Irreg.)

G5212 Research in Music Education. Prerequisite: graduate standing in music education. Methods of analytical-historical research in music and historical, philosophical, descriptive and experimental research in music education. (F, Alt. Su)

G5302 Percussion Pedagogy. Prerequisite: twelve hours of education (professional or music). The basic techniques of playing and teaching all percussion instruments for high school through college level. (Irreg.)

G5522 Voice Pedagogy I. Prerequisite: graduate standing or permission. An introduction to methods of instruction in vocal pedagogy. An in-depth study of voice building and hygiene, psychological factors in singing, physiology of the vocal tract, acoustic principles of speech and singing, and vocal materials. Evaluated through discussion, lecture, demonstration, micro-teaching, and outside reading. (Irreg.)

G5532 Master's Workshop in Voice Pedagogy. Prerequisite: graduate standing and permission. A public workshop for voice teachers concentrating on teaching techniques and materials. Must be at least three hours in length. Terminal degree requirement in lieu of recital.

G5553 Kodály Concept I. Prerequisite: graduate standing. The philosophy, methodology and techniques of teaching the Kodály Concept of music education in levels K-1. (F)
G562 Solfege I. Kodály techniques applied to the practice and skills of sight singing, ear training and dictation. Sight singing of unison, homophonic and polyphonic examples from the classical music literature. Study of selected books in the Kodály choral method. (Sp)

G563 Kodály Concept II. Prerequisite: 5553. The philosophy, methodology and techniques of teaching the Kodály Concept of music education in levels 2-3. (Irreg.)

G572 Solfege II. Prerequisite: 5562. Advanced Kodály techniques applied to the practice and skills of sight singing, ear training and dictation. Sight singing examples will involve modulation, chromaticism and modes. (Su)

G573 Kodály Concept III. Prerequisite: 5563. The philosophy, methodology and techniques of teaching the Kodály concept of music education in levels 4-6.

G582 Folk Song Research. Prerequisite: 5553. Study of musical culture in America through analysis of melodic and rhythmic structures, forms and categories of American folk songs as source material for teaching the Kodály Concept. (Irreg.)

G5612 Piano Pedagogy I. Prerequisite: graduate standing or permission. Methods, materials, curriculum building and philosophical bases for teaching piano at the college and university levels with focus on group instruction. Student teaching required. (F)

G5622 Piano Pedagogy II. Prerequisite: graduate standing or permission. Methods, materials, curriculum building and philosophical bases for teaching piano at the elementary and intermediate levels. Student teaching required. (Sp)

G5632 Current Trends in Piano Pedagogy. Prerequisite: graduate standing. Identification and evaluation of current trends in piano pedagogy including new technology and the job market. Advanced reading and research in the area of piano pedagogy with the preparation of articles suitable for publication on pertinent topics related to piano teaching. (Irreg.)

G5642 Internship in Piano Teaching. Prerequisite: graduate standing. Teaching of children's classes, college classes, adult students or private lessons under faculty supervision. Designed to give the student experience in areas where none exists. (F, Sp, Su)

G5652 Master's Workshop in Piano Pedagogy. Prerequisite: graduate standing and permission. A public workshop for piano teachers concentrating on teaching techniques and materials. The workshop must be at least three hours in length. Terminal degree requirement in lieu of recital. (F, Sp)

G5662 Teaching Intermediate and Advanced Piano. Prerequisite: graduate standing or permission. Methods, materials and curriculum building for teaching piano students at the intermediate through advanced levels. Focus will be on developing piano teaching techniques for high school and college-age students, studying repertoire that is appropriate for these students, and exploring performance practice suitable for pianists at the intermediate and advanced levels. (Alt. Sp)

G5960 Directed Readings. 1 to 3 hours. Prerequisite: eighteen hours of music, permission of the director of the school. May be repeated; maximum credit six hours. Individual topics in music education. (F, Sp, Su)

G5970 Seminar in Music Education. 1 to 6 hours. Prerequisite: twelve hours of music education, graduate standing, or permission. May be repeated with change of subject matter; maximum graduate credit twelve hours. (F, Sp, Su)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Special Studies in Music Education. 1 to 3 hours. Prerequisite: permission of the director of the school. May be repeated with change of subject matter; maximum credit six hours. Individual study and research in the field of music education. (F, Sp, Su)

G6012 Psychological Foundations of Music Education. Prerequisite: graduate standing in music or music education. Students will study the writings of Munsell, Leonard, Reimer, Elliott, and others. Students will debate the theories these authors propose and prepare written papers applying aspects of these theories to music education practice in today’s schools. (Irreg.)

G6022 Psychological Foundations of Music Education. Prerequisite: graduate standing in music or music education. Philosophies, theories, principles and concepts of learning and their implications to the teaching and learning processes in music education. The basic orientations of Associationist and Field theories will be investigated and the current state of learning theory applied to music education will be evaluated. Specific theories are those of Ausubel, Gagne, Guilford, Piaget, and Skinner and applications by Bruner, Gordon and Munsell. (Sp)

G6032 Sociological Foundations of Music Education. Prerequisite: graduate standing in Music or Music Education. Students will read works by Adorno, Becker, Blumer, Dewey, Mead, Vygotsky, and others. Students will debate the issues and theories these authors propose and prepare written papers applying aspects of these theories to music education practice in today’s schools. (Irreg.)

G6042 Historical Foundations of Music Education. Prerequisite: graduate standing in Music or Music Education. Includes readings from works by Birge, Britton, Chafe, Heller, Keene, Mark, and others that outline the development of music instruction in American schools. Students will debate the issues presented by these authors and prepare written papers on various historical movements and methodologies. (Irreg.)

G6122 Measurement and Evaluation in Music Education. Prerequisite: graduate standing in music or music education. Techniques and methods of measuring and evaluating musical behavior in cognitive, affective and psychomotor domains. (Sp)

G6222 Qualitative Research in Music Education. Prerequisite: graduate standing in music or music education. Required for the Music Education Ph.D. curriculum. Course assignments review qualitative research techniques applied to problems in music education. Students will study questionnaire development, interview formats, case study reporting, triangulation methods, and oral history methodologies. (Irreg.)

G6242 Quantitative Research in Music Education. Prerequisite: graduate standing in music or music education. Required for the Music Education Ph.D. curriculum. Course assignments review empirical research techniques applied to problems in music education. Students study research design, population sampling, statistical formulae for analyzing data, and advanced statistical techniques such as factor analysis and regression analyses. (Irreg.)

G6442 Current Trends in Music Education. Prerequisite: graduate standing in music or music education, permission. Identification and evaluation of current trends in music teaching. Individual projects expected. (Alt. F)

G6652 Doctoral Workshop in Piano Pedagogy. Prerequisite: doctoral standing and permission. A public workshop for piano teachers concentrating on teaching techniques and materials. The workshop must be a least five hours in length. Terminal degree requirement in lieu of recital. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)

Music History (MUHI)

1312 Music in Culture. Required of all music majors; non-music majors admitted by permission. A study of music in its cultural context, exploring the inter-relationship of music to such aspects as everyday life, worship and belief, migration, dance, memory, politics, and identity. Techniques of aural perception are stressed for the improvement of basic listening skills. (Sp) [IV-AF]

2313 Ancient Times to 1700. Prerequisite: 1312. A study of the development of music from its inception to the early Baroque era conducted through lectures, readings, listening and analysis. (F) [IV-WC]

2323 Late Baroque Through Romantic Period. Prerequisite: 1312. A study of the development of music in the eighteenth and nineteenth centuries conducted through lectures, readings, listening and analysis. (Sp) [IV-WC]

3333 Post-Romantic Period to the Present. Prerequisite: 1312. A study of the development of music from the Post-Romantic era to the present day conducted through lectures, readings, listening and analysis. (F) [IV-WC]

4970 Undergraduate Seminar. 1 to 3 hours. Prerequisite: permission of department. In-depth study of topics of interest as appropriate to the field of study. Subjects such as the style, aesthetics, and influence of a particular composer, i.e., Beethoven, Berio, Brahms; the social/cultural foundations of a particular musical era or period; notational systems; and the like, are illustrative of the topics that may be pursued. (Sp)

G5323 The History of Opera. Prerequisite: graduate standing or permission; 2313, 2323, 3333, or equivalent. Changes of content, style and form in dramatic music as related to social, economic and political change in the past 350 years of western civilization. (Irreg.)

G5333 History of the Symphony. Prerequisite: graduate standing or permission; 2313, 2323, 3333, or equivalent. The development of symphonic form with detailed attention to outstanding examples of literature from the various periods. (Irreg.)

G5373 History of American Music. Prerequisite: graduate standing or permission; 2313, 2323, 3333, or equivalent. Music in the United States from its beginnings to the present. (Irreg.)

G5523 Music in the Renaissance: Style, Theory and Performance. Prerequisite: graduate standing; 2313 or equivalent. An integrated course that correlates vocal and instrumental Renaissance music by the major composers with the major writers of the time on musical theory, acoustics, philosophy, esthetics, history and performance. (Irreg.)
Music for Non-majors (MUNM)

1022 Beginning Instrument/Voice Class I. For non-music majors with no experience in the instrument/voice only. May be repeated for credit; maximum credit eight hours. Class in instruction in basic performance/musicianship skills. (F, Sp)

1032 Beginning Instrument/Voice Class II. Prerequisite: 1022 or permission. For non-music majors with limited instrumental/vocal experience only. May be repeated for credit; maximum credit eight hours. Class instruction in basic performance/musicianship skills. (F, Sp)

1100 Freshman and/or Sophomore Piano, Violin, etc., for Non-Music Majors, 1 to 2 hours. Prerequisite: permission of instructor. Enrollment is subject to faculty availability and will not be accepted until the first day of classes. Private instruction in the development of instrumental or vocal performance skills and musicianship. (F, Sp, Su)

1113 The Understanding of Music. Open to non-music majors. A course in music appreciation covering all of the important fields of music, with opportunity for the students to listen to recordings and to attend concerts. (F, Sp, Su) [IV-AF]

1123 Music Theory for Non-Majors I. Study of the basic materials of music. These materials will be approached through written, aural, oral and analysis drills. Credit not applicable to Bachelor of Music, Bachelor of Music Education, or Bachelor of Fine Arts-Music Emphasis degrees. (F)

1743 Experiencing Music. Designed as an introduction to the varied strands of folk music in America. Involves examination of the historical, cultural and social implications of American folk songs; performance and analysis of folk songs as musical art forms; and the link between folk songs and large-scale contemporary musical compositions. (F, Sp) [IV-AF]

2210 Special Topics in Music. 1 to 3 hours. Prerequisite: 1113 or permission of instructor. May be repeated with change of topic. Special topics in music and music history requiring a minimal background in music. Topics typically will treat periods of musical history, style and related topics. (F, Sp, Su) [IV-AF]

2313 History of Jazz. Open to non-music majors. Detailed and specific study of jazz as a major musical art form. Studies the logical musical developments of jazz pointing out the important elements comprising the individual styles as they have evolved. Evolution and cultural ties are made through representative masterworks by master performers. Critical listening and evaluation are a major element. No prior knowledge of terms or techniques is necessary. (F, Sp, Su) [IV-AF]

2970 Special Topics in Music Literature. Majors only. 1 to 3 hours. May be repeated with change of subject matter; content changes each semester. Study of newly developed, experimental or inter-disciplinary topics in music literature. (Alt. F)

4101-4110 Advanced Vocal Literature. 1 to 3 hours. Prerequisite: graduate standing or permission. Individual study of newly developed, experimental or inter-disciplinary topics in music literature. (Alt. F, Sp)

4430 Advanced Studies in Music Literature. 1 to 3 hours. Prerequisite: graduate standing or permission. Individual study of newly developed, experimental or inter-disciplinary topics in music literature. (Alt. F, Sp)

G653 History of Chamber Music. Prerequisite: graduate standing or permission; 2313, 2323, 3333, or equivalent. A study of music for chamber ensembles. (Alt. F, Sp)

G5990 Special Studies. Prerequisite: graduate standing; permission of the director of the school. May be repeated with change of subject matter; maximum credit six hours. Individual study and research in the field of music literature. (F, Sp, Su)
1010 Recital Attendance. 0 hours credit. Performance laboratory for all undergraduate music majors. (F, Sp)

**Music Recitals**

Designator varies with classification

3021 Junior Recital. Prerequisite: concurrent enrollment in 4020, during the junior year, permission of adviser and instructor. Preparation and performance of a public recital by students in the B.M. degree program. (F, Sp, Su)

4011 Undergraduate Recital. Prerequisite: concurrent enrollment in 4010, permission of adviser and instructor. Preparation and performance of a public recital by students in the B.M.A. and B.M.E. degree programs. (F, Sp, Su)

4013 Senior Recital/Research Project. Prerequisite: concurrent enrollment in 4010, permission of adviser and instructor. Preparation and performance of a public recital and a parallel research project by students in the B.M.A. degree program. (F, Sp, Su) [V]

4021 Senior Recital. Prerequisite: 3021, concurrent enrollment in 4020, permission of adviser and instructor. Preparation and performance of a public recital by students in the B.M. degree program. (F, Sp, Su)

4023 Senior Recital/Research Project. Prerequisite: 3021, concurrent enrollment in 4020, permission of adviser and instructor. Preparation and performance of a public recital and a parallel research project by students in the B.M. degree program. (F, Sp, Su) [V]

G5042 Graduate Recital—Master of Music Degree. Prerequisite: concurrent enrollment in 5020, permission of adviser and instructor. Preparation and performance of a public recital. May not be elected during first enrollment. (F, Sp, Su)

G5051 Graduate Composition Recital. Prerequisite: permission of instructor. A program of original compositions presented in partial fulfillment for the requirements of the Master of Music degree in composition. (F, Sp, Su)

G5052 Graduate Recital—Master of Music Education Degree. Prerequisite: concurrent enrollment in 5010, permission of adviser and instructor. May not be elected during first enrollment. (F, Sp, Su)

G6022 Graduate Recital—Doctor of Philosophy Degree. Prerequisite: concurrent enrollment in 6010, permission of adviser and instructor. May be repeated for credit with the approval of the student’s advisory committee. May not be elected during first enrollment. Preparation and performance of a public recital. (F, Sp, Su)

G6042 Graduate Recital—Doctor of Musical Arts Degree. Prerequisite: concurrent enrollment in 6020, permission of adviser and instructor. May be repeated; maximum credit four hours. May not be elected during first enrollment. The preparation and presentation of a public lecture or chamber music recital. Requires the submission of a related written document. (F, Sp, Su)

G6052 Graduate Lecture/Chamber Recital—Doctor of Musical Arts Degree. Prerequisite: concurrent enrollment in 6020; permission of adviser and instructor. May not be elected during first enrollment. The preparation and presentation of a public lecture or chamber music recital. Requires the submission of a related written document. (F, Sp, Su)

1100 Jazz Ensemble. 0 to 1 hour. Prerequisite: permission by audition. May be repeated for credit; maximum credit eight hours. Preparation and performance of music written in a variety of jazz styles. (F, Sp)

1130 University Band. 0 to 1 hour. Prerequisite: permission by audition. Performance in University bands. (F, Sp, Su)

1140 University Orchestra. 0 to 1 hour. Prerequisite: permission by audition. May be repeated for credit; maximum credit eight hours. Performance in University orchestra. (F, Sp, Su)

1160 University Chorale. 0 to 1 hour. Prerequisite: permission; membership determined by audition. May be repeated for credit; maximum credit eight hours. An ensemble of high caliber; approximately 24 singers. Rehearsal and performance of choral and choral-orchestral masterworks drawn mostly from the baroque through twentieth-century style periods. Several performances each semester. (F, Sp, Occas. Su)

1170 University Choir. 0 to 1 hour. Open to both music majors and non-music majors. May be repeated for credit. Performance of a cappella and accompanied music of various periods and styles. One to two performances per semester. (F, Sp, Su)

1180 University Chorus. 0 to 1 hour. Open to all university students. May be repeated for credit. A large chorus for the music enthusiast who desires a rich experience singing a variety of music. Repertoire will range from lighter pieces to large choral-orchestral works. Occasional performances. (F, Sp)

1190 Opera/Music Theatre. 0 to 2 hours. Prerequisite: permission of instructor by audition. May be repeated for credit; maximum credit sixteen hours. Consists of rehearsals and performances of opera, musicals and other forms of music theatre. (F, Sp)

1211 Brass Instrument Class. Prerequisite: permission. May be repeated with change of instrument or subject matter; maximum credit four hours. Basic concepts of playing and teaching brass instruments. Laboratory (F, Sp)

1221 Percussion Instrument Class. Prerequisite: permission. May be repeated with change of instrument or subject matter; maximum credit four hours. Basic concepts of playing and teaching percussion instruments. Laboratory (F, Sp)

1231 Woodwind Instrument Class. Prerequisite: permission. May be repeated with change of instrument or subject matter; maximum credit four hours. Basic concepts of playing and teaching woodwind instruments. Laboratory (F, Sp)

1251 Stringed Instrument Class. Prerequisite: permission. May be repeated with change of instrument or subject matter; maximum credit four hours. Laboratory (F, Sp)

1261 Group Voice. Open to music majors whose emphasis is not in voice. May be repeated; maximum credit two hours. Development of basic skills, techniques and repertoire for the singer. (F, Sp)

1311 Group Piano I. Prerequisite: permission. Development of functional piano skills for the non-keyboard music major. Emphasis on keyboard theory and technique, sight reading, solfensemble repertoire and creative activities (harmonization, improvisation). Laboratory (F, Sp)

1321 Group Piano II. Prerequisite: 1311 and permission. Continued development of the skills begun in 1311. Laboratory (F, Sp)

1332 Functional Piano Skills I. Prerequisite: piano major, piano emphasis, permission. Experience in sight reading, playing by ear, modulation, open score reading, transposition and improvisation at the keyboard. (F)

1342 Functional Piano Skills II. Prerequisite: 1332 or permission. Experience in sight reading, playing by ear, modulation, open score reading, transposition and improvisation at the keyboard. (F)

2020 Composition Forum. Prerequisite: composition majors; corequisite: Composition 2010 or 2040. Required of all composition majors. Meets weekly throughout the semester as an official laboratory to discuss compositional techniques and review student compositions. (F, Sp, Su)

2271 Chamber Music. Prerequisite: permission. May be repeated; maximum credit four hours. Study and performance of chamber music literature for various combinations of instruments. (F, Sp, Su)

2280 Studio Ensemble. 0 to 1 hour. May be repeated for credit. Performance experience in an ensemble of similar instruments. (F, Sp, Su)

2311 Group Piano III. Prerequisite: 1321 and permission. Continued development of the skills begun in 1321. Laboratory (F, Sp)

2321 Group Piano IV. Prerequisite: 2311 and permission. Continued development of the skills begun in 2311. Special emphasis on sight reading, accompanying and instrumental and vocal-choral score reading. Laboratory (F, Sp)

2970 Special Topics in Music Technique. Majors only. 1 to 3 hours. May be repeated with change of subject matter; content changes each semester. Study of newly developed, experimental or inter-disciplinary topics in music technique.

**Music Technique (MUTE)**

3413 Music of the Pacific Rim. Open to non-music majors. Music cultures of the Pacific Rim including Japan, Southeast Asia, Indonesia, Pacific Islands and Australia. Cultural context and aesthetic elements of the music will be examined. Western music terminology will serve as a point of departure as a new music vocabulary and mindset are developed and used as part of written reports and class discussions. (F, Sp) [IV-NW]

4210 Special Topics in Music. 1 to 3 hours. Prerequisite: 1113. May be repeated with change of topic; maximum credit six hours. Special topics in music and music history requiring writing projects and listening activity. Topics typically will treat periods of musical history, style, and related topics. (F, Sp, Su)

4970 Undergraduate Seminar. Open to non-music majors. 1 to 3 hours. Prerequisite: 1113 or permission of instructor. May be repeated with change of subject matter; content changes each semester. Study of newly developed, experimental or inter-disciplinary topics in music.

G5100 Graduate Piano, Violin, etc., for Non-Music Majors. 1 to 2 hours. Prerequisite: graduate standing and permission; four semesters of previous study in the instrument or voice. Enrollment is subject to faculty availability and will not be accepted until the first day of classes. Private instruction in the development of instrumental or vocal skills and musicianship. (F, Sp, Su)

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**Course Descriptions**
3110 Studio Accompanying for Piano Majors. 0 to 1 hour. Prerequisite: 2212, 2222, or concurrent enrollment, or permission. Required of piano majors, during junior and senior years. Two hours per week of assigned accompanying in vocal and/or instrumental teaching studios. Laboratory (F, Sp)

3120 Jazz Ensemble. 0 to 1 hour. Admission by audition. May be repeated for credit. Preparation and performance of music written in a variety of jazz styles.

3130 University Band. 0 to 1 hour. Prerequisite: permission by audition. May be repeated for credit; maximum credit eight hours. Performance in University bands. (F, Sp, Su)

3140 University Orchestra. 0 to 1 hour. Prerequisite: permission by audition. May be repeated for credit; maximum credit eight hours. Performance in University orchestra. (F, Sp)

3160 University Chorale. 0 to 1 hour. Prerequisite: audition; May be repeated for credit. An ensemble of high caliber; approximately forty singers. Rehearsal and performance of choral and choral-orchestral masterworks drawn mostly from the baroque through twentieth-century style periods. Several performances each semester. (F, Sp)

3170 University Choir. 0 to 1 hour. Prerequisite: audition. Open to both music majors and non-music majors. May be repeated for credit. Performance of a capella and accompanied music of various periods and styles. One to two performances per semester. (F, Sp, Su)

3180 University Chorus. 0 to 1 hour. Prerequisite: audition. Open to all University students. May be repeated for credit. A large chorus for the music enthusiast who desires a rich experience singing a variety of music. Repertoire will range from light pieces to large choral-orchestral works. Occasional performances. (F, Sp)

3190 Opera/Music Theatre. 0 to 2 hours. Prerequisite: permission by audition. May be repeated for credit; maximum credit sixteen hours. Consists of rehearsals and performances of opera, musicals and other forms of music theatre. (F, Sp)

3242 Instrumental Conducting I. Prerequisite: junior standing in music. Development of skills and knowledge in instrumental conducting, rehearsal techniques and instrumental repertoire. (F)

3252 Instrumental Conducting II. Prerequisite: 3242. Continued development of skills and knowledge in instrumental conducting, rehearsal skills and instrumental repertoire. (Sp)

3262 Choral Conducting I. Prerequisite: junior standing in the School of Music. Development of skills and knowledge in choral conducting, rehearsal techniques and choral repertoire. (F)

3272 Choral Conducting II. Prerequisite: 3262. Continued development of skills and knowledge in choral conducting, rehearsal techniques and choral repertoire. (Sp)

3282 Singer’s Diction I. Prerequisite: junior standing in music. Provides an introduction to the principles of correct pronunciation of English, Italian and Latin for singing. Students will learn and use the International Phonetic Alphabet (IPA) as a symbolic medium. The rules of pronunciation will be illustrated through the study and performance of songs from English and Italian art song and operation repertoire, and Latin choral repertoire. (Irreg.)

3292 Singer’s Diction II. Prerequisite: junior standing in music, and 3282. Provides an introduction to the principles of correct pronunciation of German and French for singing. Students will learn and use the International Phonetic Alphabet (IPA) as a symbolic medium. The rules of pronunciation will be illustrated through the study and performance of songs from German and French art song and operatic repertoire. (Irreg.)

3342 Jazz Improvisation. Development of improvising skills in the jazz idiom. Designed as a hands-on laboratory course for students of various skill levels to improve personal abilities. (F, Sp, Su)

4020 Composition Forum. Prerequisite: junior standing and composition majors; corequisite: Composition 4010 or 4020. Required of all composition majors. Meets weekly throughout the semester as an official laboratory to discuss compositional techniques and review student compositions. (F, Sp, Su)

G4252 Church Music. Prerequisite: junior standing in the School of Music and permission. Music in the church service. Appropriate choral, vocal, instrumental and organ literature. (F)

G4262 Church Music. Prerequisite: junior standing in the School of Music and permission. Music in the church service. Appropriate choral, vocal, instrumental and organ literature. (Sp)

4271 Chamber Music. Prerequisite: permission. May be repeated; maximum credit four hours. Study and performance of chamber music literature for various combinations of instruments. (F, Sp)

4272 Movement for Musicians (Slashlisted with 5272). Prerequisite: junior standing. Explores the interrelationship of movement, music, imagination, and emotion. Conductors, composers, singers, and actors are invited to participate. No student may earn credit for both 4272 and 5272. (Irreg.)

4280 Studio Ensemble. 0 to 1 hour. Prerequisite: 2280. May be repeated for credit. Performance experience in an ensemble of similar instruments. (F, Sp)

4283 Acting for Opera (Slashlisted with 5283). Prerequisite: junior standing in music. Develops basic acting and interpretative skills for opera including characterization, interaction, and improvisation. Students will also begin to develop professional work habits and artistic independence. The course culminates with a public presentation of scenes. No student may earn credit for both 4283 and 5283. (Irreg.)

4290 Opera Production (Slashlisted with 5290), 1 to 3 hours. Prerequisite: junior standing in music. May be repeated; maximum credit twelve hours. A musical, dramatic, and technical theater practicum for students cast in solo and chorus roles in major opera productions. The purpose of the course and productions is to provide appropriate training and performance opportunities for each participant. No student may earn credit for both 4290 and 5290. (Irreg.)

4970 Undergraduate Seminar. Majors only. 1 to 3 hours. May be repeated with change of subject matter; content changes each semester. In-depth look at areas dealing with technique, technology and applied instruction in a class or group setting. Study of newly developed, experimental or inter-disciplinary topics in music technique.

G5110 Collegium Musicum. 0 to 1 hour. Prerequisite: permission of instructor. May be repeated for credit; maximum credit four hours. Performance of instrumental and vocal music from all periods and repertoires, and problems related thereto. (F, Sp)

G5120 Jazz Ensemble. 0 to 1 hour. Prerequisite: graduate standing and permission. May be repeated for credit; maximum credit four hours. Admission by audition. Preparation and performance of music written in a variety of jazz styles. (F, Sp)

G5130 University Band. 0 to 1 hour. Prerequisite: permission of instructor; determined by audition. May be repeated for credit. Number of credits applicable to degree programs varies, but in no case may exceed four hours. Study and performance of concert literature for the wind band to include score analysis and study of the aspects of program planning and performance practices. (F, Sp, Su)

G5140 University Orchestra. 0 to 1 hour. Prerequisite: permission of instructor; determined by audition. May be repeated for credit. Number of credits applicable to degree programs varies, but in no case may exceed four hours. Study and performance of orchestral literature for the string orchestra and full symphony orchestra to include score analysis and study of the aspects of program planning and performance practices. (F, Sp)

G5160 University Chorale. Prerequisite: graduate standing, permission; membership determined by audition. May be repeated for credit. An ensemble of high caliber; approximately forty singers. Rehearsal and performance of choral and choral-orchestral masterworks drawn mostly from the baroque through twentieth-century style periods. Several performances each semester. (F, Sp, Su)

G5170 University Choir. 0 to 1 hour. Prerequisite: permission of instructor; determined by audition. Open to both music and non-music majors. May be repeated for credit. Performance of a cappella and accompanied music of various periods and styles. One to two performances per semester. (F, Sp, Su)

G5180 University Chorus. 0 to 1 hour. Prerequisite: graduate standing. Open to all University students. May be repeated for credit. A large chorus for the music enthusiast who desires a rich experience singing a variety of music. Repertoire will range from lighter pieces to large choral-orchestral works. Occasional performances. (F, Sp)

G5190 Opera/Music Theatre. 0 to 2 hours. Prerequisite: permission of instructor by audition. May be repeated for credit; maximum credit eight hours. Consists of rehearsals and performances of opera, musicals and other forms of music theatre. (F, Sp)

G5271 Chamber Music. Prerequisite: graduate standing, permission. May be repeated with change of subject matter. Survey of chamber music through participation in ensemble groups. Preparation and public performance of selected chamber music works. (F, Sp)

G5272 Movement for Musicians (Slashlisted with 4272). Prerequisite: graduate standing. Explores the interrelationship of movement, music, imagination, and emotion. Conductors, composers, singers, and actors are invited to participate. No student may earn credit for both 4272 and 5272. (Irreg.)

G5280 Studio Ensemble. 0 to 1 hour. Prerequisite: graduate standing. May be repeated for credit. Performance experience in an ensemble of similar instruments. (F, Sp)
Music Technology (MUTK)

2263 Musical Instrument Digital Interface I. A basic course in electronic music utilizing the University of Oklahoma MIDI laboratory. Laboratory (F)

3263 Musical Instrument Digital Interface II. Prerequisite: 2263. Moving from MIDI theories of operation to several applications of MIDI such as MIDI sequencing and musical notation. (Sp)

Music Theory (MUTH)

1511 Musical Structures I. Prerequisite: knowledge of music fundamentals, written and aural, or concurrent enrollment in 0601. Study of the basic materials of music as a necessary preparation for the study of music theory. These factors will be approached through written, aural, oral, sensitivity, keyboard and analysis drills. (F, Sp)

1522 Musical Structures II. Prerequisite: 1511. An overview of the common practice periods through writing, analysis, aural perception and keyboard. (F, Sp)

1611 Aural Skills I. Prerequisite: knowledge of music fundamentals, written and aural, or concurrent enrollment in 0601. Study of simple melodic and rhythmistic patterns, isolated and in the context of literature, to the end of aural perception and vocal reading of same. Laboratory (F, Sp)

1622 Aural Skills II. Prerequisite: 1611. Continuation of 1611. Laboratory (F, Sp)

2512 Musical Structures III. Prerequisite: 1522. A study of the traditional harmonic practices of the eighteenth and nineteenth centuries through writing, analysis, aural perception and keyboard. (F, Sp) [IV-AF]

2522 Musical Structures IV. Prerequisite: 2512. A study of late nineteenth- and twentieth-century harmonic practices and idioms through writing, analysis, aural perception and keyboard. (F, Sp)

2612 Aural Skills III. Prerequisite: 1622. Study of moderately difficult rhythms and melodies in the context of illustrative eighteenth- and nineteenth-century styles—aural perception, vocal reading and analysis. Laboratory (F)

2622 Aural Skills IV. Prerequisite: 2612. Study of rhythms and melodies as used by late nineteenth- and twentieth-century composers—aural perception, vocal reading and analysis. Laboratory (Sp)

2970 Special Topics in Music Theory. Majors only. 1 to 3 hours. May be repeated with change of subject matter; content changes each semester. Study of newly developed, experimental or inter-disciplinary topics in music theory.


3763 Counterpoint. Prerequisite: 3562. A study of eighteenth-century counterpoint. First semester, two parts with analysis and original writing. (F)

3783 Forms and Analysis. Prerequisite: 3562. A study of the structure of homophonic forms, followed by the standard polyphonic and homophonic forms of eighteenth-, nineteenth-, and twentieth-century music. (Sp)

4853 Orchestration. Prerequisite: 3763 or concurrent enrollment in 3763. A study of the characteristics of the instruments of the orchestra and their uses in combination, including historical background of orchestral style. (F)

4863 Advanced Orchestration. Prerequisite: 4853 or permission of instructor. May be repeated; maximum credit six hours. Continuation of the study of the characteristics of the instruments of the orchestra and their uses in combination covering advanced techniques and practices, including historical background or orchestral style, including the twentieth century. (Sp)

4942 Instrumental Arranging. Prerequisite: twelve hours of music theory. Arranging instrumental music for all combinations of instruments and groupings. (Sp)

4970 Senior Seminar. 1 to 3 hours. Prerequisite: 3773 and 3783. May be repeated once with change of topic; maximum credit six hours. Not open to graduate students. Intended to permit study in-depth of such areas as the style of a particular composer or the writing of a particular theorist such as Hindemith, Schenker, Persichetti and others. (F, Sp, Su)

4982 Practicum in Music Theory I. Prerequisite: twelve hours of music theory. The study of nineteenth-century chromatic harmony and the relationship of musical content to musical form. (F, Alt. Su)

4982 Practicum in Music Theory II. Prerequisite: 5812. A brief comparative study of Baroque and twentieth-century fugues; analysis of compositional techniques and forms in the first half of the twentieth century. (Sp, Su)

G3960 Directed Readings. 1 to 4 hours. Prerequisite: eighteen hours of music, permission of the director of the school. May be repeated; maximum credit applicable to degree, six hours. Prerequisite for both 4283 and 5283. (Irreg.)

G5283 Acting for Opera (Slashlisted with 4283). Prerequisite: junior standing in music. Develops basic acting and interpretive skills for opera including characterization, interaction, and improvisation. Students will also begin to develop professional work habits and artistic independence. The course culminates with a public presentation of scenes. No student may earn credit for both 4283 and 5283. (Irreg.)

G5290 Opera Production (Slashlisted with 4290). 1 to 3 hours. Prerequisite: junior standing in music. May be repeated; maximum credit twelve hours. A musical, dramatic, and technical theater practicum for students cast in solo and chorus roles in major opera productions. The purpose of the course and productions is to provide appropriate training and performance opportunities for each participant. No student may earn credit for both 4290 and 5290. (Irreg.)

G5342 Jazz Improvisation. Development of improvising skills in the jazz idiom for graduate students. Designed as a hands-on laboratory course for students of various skill levels to improve personal abilities. (F, Sp)

G5512 Choral Conducting. Prerequisite: 3262; graduate standing; permission of instructor. May be repeated; maximum credit six hours. Development of conducting gestures, rehearsal procedures and stylistic interpretation in an ensemble setting. Content coordinated with 6152. Repertoire ranges from medieval chant to avant garde works with non-conventional notation. (F, Sp, Su)

G5522 Instrumental Conducting. Prerequisite: 3252; graduate standing; permission of instructor. May be repeated; maximum credit six hours. Development of conducting gestures, rehearsal procedures and stylistic interpretation in an ensemble setting. Content coordinated with 6152. Repertoire ranges from medieval chant to avant garde works with non-conventional notation. (F, Sp, Su)

G5532 Instrumental Score Studies. Prerequisite: 3252; graduate standing or permission. May be repeated with change of content. Critical performance analysis of selected instrumental masterworks from various style periods. (F)

G5712 Seminar in Music Television Production. Prerequisite: permission of instructor. Study of techniques and problems in working as producer employing professionals in music television. Topics to include funding; scripting; music recording; coaching rehearsals and performances; hiring the production crew for lighting, video or film, audio, designers and builders of costumes, and sets for dramatization, etc. Format involves directed reading and supervised participation in real television production.

G5722 Seminar in Music Television Post-Production. Prerequisite: permission of instructor. Study of techniques and problems in working as producer employing professionals in music television post-production. Topics to include television editing (online and off-line), use of time code, titling, preparation for broadcast, video cassette distribution, copyright, writing study guides, and philosophy of publication through television. Format involves directed reading and direct participation in music television post-production.

G5970 Seminar in Music Technique. 1 to 3 hours. Prerequisite: graduate standing in music and permission. May be repeated with change of subject matter; maximum credit applicable to degree, six hours. In-depth study of topics of interest in music performance. (Sp)

G5990 Special Studies in Conducting. 1 to 3 hours. Prerequisite: 5512 or 5522, graduate standing, permission of director of the school. May be repeated with change of subject matter; maximum graduate credit six hours. Advanced individual study of conducting problems and score analysis. (Sp, Su)

G6152 Choral Score Studies. Prerequisite: 3252; graduate standing; permission of instructor. May be repeated, eight hours credit applicable to DMA degree. Critical performance analysis of selected masterworks from medieval chant to avant garde works of the twentieth century. Development of an understanding of proper style and interpretation based on musical research. (F, Sp, Su)

G6162 Instrumental Score Studies. Prerequisite: 5512, graduate standing, and permission of instructor. May be repeated; maximum credit eight hours applicable to DMA degree. Development of knowledge of broad base of repertoire combined with in-depth analysis of specific works. (F, Sp)

G6210 Collegium Musicum. 0 to 1 hour. Prerequisite: permission. Performance of instrumental and vocal music from all periods and repertoires, and problems related thereto. (F, Sp)

G6252 Choral Conducting. Prerequisite: 5512; graduate standing; permission of instructor. May be repeated; eight hours credit applicable to DMA degree. Refinement of conducting, rehearsal and interpretive skills. Emphasis on musical nuance in choral style and interpretation. (F, Sp, Occas. Su)

G6262 Instrumental Conducting. Prerequisite: 5522, graduate standing, and permission of instructor. May be repeated; maximum credit eight hours applicable to DMA degree. Development of advanced conducting techniques and rehearsal skills. Exploration of relationships between structural analysis and performance. Podium time in ensemble situations. (F, Sp)
undergraduate credit eight hours, graduate credit six hours. Individual topics in
music theory. (F, Sp, Su)
G5970 Seminar in Music Theory. 1 to 4 hours. Prerequisite: thirty hours of
music or permission. May be repeated with change of subject matter;
maximum graduate credit twelve hours. (F, Sp, Su)
G5980 Research for Master's Thesis. Variable enrollment, two to nine hours;
maximum credit applicable toward degree, four hours. (F, Sp, Su)
G5990 Special Studies in Music Theory. 1 to 3 hours. Prerequisite: thirty
hours of music, permission of the director of the school. May be repeated with
change of subject matter; maximum graduate credit six hours. Individual study,
research and analysis in music theory. (F, Sp, Su)
G6833 Analysis of Twentieth-Century Music. Prerequisite: sixteen hours of
music theory permission. Traces the origins of twentieth-century music and
surveys compositional techniques. (Irreg.)
G6853 Analytical Techniques of Musical Styles. Prerequisite: thirty hours of
music, including eighteen hours of music theory. The techniques of stylistic
analysis of music from the Baroque period through the early twentieth century.
(Irreg.)

Musical Theatre (MTHR)

1102 Tap Foundations. Prerequisite: permission of instructor. Introduction to
the basic concepts of tap dance. Students learn step development, basic
rhythms, and the rudiments of placement, balance, and weight change. (F, Sp)
1111 Musical Theatre Movement. Prerequisite: admission to program and or
permission of instructor. A basic movement class that introduces a traditional
musical theatre jazz vocabulary to the novice dancer. Beginning with such
steps and the lindy, grapevine, and jazz square. Students will learn proper
placement and alignment while focusing on basic jazz technique designed to
help the student make a smooth transition into the pace of the Jazz I class. (Sp)
1112 Tap I (Crosslisted with Dance 1112). Prerequisite: Dance 1212 and
permission of instructor. May be repeated; maximum credit four hours.
Technique emphasizing beginning rhythms, vocabulary and skills. (F, Sp)
1402 Jazz Foundations. Prerequisite: permission of instructor. Introduction to the
basic concepts of jazz movement. Students learn basic motor skills used in
musical theatre and focus on the rudiments of placement, alignment, flexibility,
and assimilation. (F, Sp)
1442 Jazz I (Crosslisted with Dance 1442). Prerequisite: Dance 1212 and
permission of instructor. May be repeated; maximum credit four hours.
Introduction to jazz technique to develop a kinesthetic awareness, body
function, and expression through the style of jazz dance. (F, Sp)
1502 Studio Voice I. Prerequisite: admission to musical theatre program. May be
repeated; maximum credit four hours. Establishing basic vocal technique for
musical theatre, including vocal exercises and breathing technique. Application of technique through the study of beginning level Broadway
up-tempos and ballads as well as English art song and American folk song. (F, Sp)
1501 Musical Notation. Prerequisite: admission to Musical Theatre program.
Lecture/discussion class to enhance the ability to read music, including treble
and bass clefs, major and minor scales, diatonic intervals and chords as well as
simple and compound rhythms. (F)
1551 Sight Reading. Prerequisite: admission to Musical Theatre program. Lab
practise of rhythm and pitch recognition including the ability to perform
diatonic intervals ascending/descending as well as simple/compound rhythms
in both division and subdivision. (Sp)
2101 Performance Practicum. Prerequisite: permission of instructor. May be
repeated; maximum credit four hours. Study and practice in rehearsal and
performance as a cast member in musical theatre productions including cabaret/revue
career work of the freshman/sophomore level. (F, Sp)
2112 Tap II (Crosslisted with Dance 2112). Prerequisite: 1112 and
permission of instructor. May be repeated; maximum credit four hours.
Beginning tap technique emphasizing skill refinement, increased vocabulary,
and performance quality. (F, Sp)
2121 Auditions. Prerequisite: permission of instructor. An introduction to
musical theatre performance through the practice of auditioning. Study involves
an overview of song form, style, and composers. Assignments include
casting notices, resume format and research tools. Emphasis is placed on
assembling a portfolio of song cuttings. (Sp)
2442 Jazz II (Crosslisted with Dance 2442). Prerequisite: 1442 or permission
of instructor. May be repeated; maximum credit four hours. Continuing study of
jazz technique, structure, and performance quality culminating towards advanced beginner-level routines in traditional jazz style, including
turns and leaps. (F, Sp)
2502 Studio Voice II. Prerequisite: 1502. May be repeated; maximum credit
four hours. Continuing practice of vocal technique for musical theatre singing;
includes developing range, flexibility and tone color. Application of technique
through the study of intermediate level Broadway up-tempos and ballads, as
well as Italian art song and European operetta. (F, Sp)
3112 Tap III (Crosslisted with Dance 3112). Prerequisite: 2112 or permission
of instructor. May be repeated; maximum credit six hours. Intermediate tap
experience emphasizing skill refinement, increased vocabulary, and
performance capabilities. (Irreg.)
3141 Repertoire. Prerequisite: 2112 or permission of instructor. Investigation of
Broadway and Hollywood songwriting during the first half of the 20th
Century. Performance material will consist of songs appropriate for the
student’s vocal range. Study includes critical listening to period recordings. (F)
3142 Song Study. Prerequisite: 3141 or permission of instructor. Development of
musical theatre performance technique through the study of solo song.
Study includes exploring aspects of interpretation and expression to support
the vocal, physical and mental aspects of performing. Emphasis is placed on
integrating singing and acting skills. (Sp)
3143 History of American Musical Theatre. Prerequisite: permission of
instructor. Surveys history of the American musical theatre from its beginnings
in the late 19th century to the present. (Sp) [IV-AF]
3163 Musical Scenes. Prerequisite: 3142 or permission of instructor.
Application of musical theatre performance technique utilizing scenes from the
Broadway stage. Study includes using show research and script analysis to
develop characterization. Emphasis is placed on creating unified performance
both dramatically and musically. (F)
3171 Roles. Prerequisite: 3163 or permission of instructor. Exploration of
musical theatre leading roles from the second half of the 20th Century.
Performance material will consist of songs appropriate for the student’s vocal
and physical range. Study includes viewing performances of artists from the
Broadway stage. (Sp)
3442 Jazz III (Crosslisted with Dance 3442). Prerequisite: 2442 or permission
of instructor. May be repeated; maximum credit four hours. Continuation of
2442. Intermediate-level instruction stressing more complicated routines at a
heightened pace utilizing contemporary and traditional routines. (Irreg.)
3502 Studio Voice III. Prerequisite: 2502. May be repeated; maximum credit
four hours. Broadening development of vocal technique for musical theatre
singing includes learning to blend the vocal registers for healthy tone
production. Application of technique through the study of advanced level
Broadway up-tempos and ballads, as well as German art song and American
operetta. (F, Sp)
3960 Honors Reading. Prerequisite: admission to Honors program and permission of instructor. Consists of either reading topics or independent study
designated by the instructor in keeping with the student’s major program.
Covers materials not usually presented in the regular courses. (F, Sp)
3980 Honors Research. Prerequisite: admission to Honors program and permission of instructor. Provides an opportunity for the gifted Honors
candidate to work at a special project in the student’s field. (F, Sp)
4101 Advanced Performance Practicum. Prerequisite: junior or senior
standing and permission of instructor. May be repeated; maximum credit four
hours. Study and practice in rehearsal and performance as a cast member in
musical theatre productions, including mainstage or cabaret/revue
participation during the junior and senior years. (F, Sp)
4112 Tap IV (Crosslisted with Dance 4112). Prerequisite: 3112 or permission
of instructor. May be repeated; maximum credit four hours. Continuation of
3112. This class is at an advanced level furthering the dancer’s vocabulary,
refinement or performance skills, and ability to pick up steps quickly. (Irreg.)
4172 Theatre Dance Styles I. Prerequisite: 2112 and 2442, and senior
standing, or permission of instructor. A practical and historical study of the
Broadway dance styles. The main focus is in the jazz idiom; however, strong
ballet, jazz, and tap skills are required. Emphasis is placed on technique,
performance quality and auditioning skills. (F)
4174 Coaching. Prerequisite: 3171 or permission of instructor. Advanced
techniques of musical theatre performance through individual coaching. Study
includes developing a song notebook appropriate to one’s type for professional
auditions and assignments related to working in the Broadway profession.
Emphasis is placed on presenting a variety of musical and dramatic styles. (F)
4176 Theatre Dance Styles II. Prerequisite: 4172. This course is a continuing
study of Broadway dance styles. Strong skills in jazz, ballet, and tap are
required. Emphasis placed on techniques, performance quality and
auditioning skills. (Sp)
4183 Capstone Experience. Prerequisite: senior standing and permission of instructor. Requires written documentation in appropriate format. Senior year
Native American Studies (NAS)

1713 Beginning American Indian Languages I (Crosslisted with Anthropology 1713). May be repeated with change of language; maximum credit 12 hours. Introduction to the structure of an American Indian language with special attention to its phonology, morphology, and syntax. Conversational practice, vocabulary-building and the history and culture of the native speech community also are emphasized. (F, Sp) [I-FL]

1723 Beginning American Indian Languages II (Crosslisted with Anthropology 1723). Prerequisite: 1713 in the native language listed as course topic. May be repeated with change of language; maximum credit 12 hours. Introduction to the structure of an American Indian language with special attention to its phonology, morphology and syntax. Conversational practice, vocabulary-building, and the history and culture of the native speech community also are emphasized. (F, Sp) [I-FL]

2733 Intermediate American Indian Languages (Crosslisted with Anthropology 2733). Prerequisite: 1723. May be repeated with change of language; maximum credit 12 hours. A systematic review of the structure of an American Indian language. Syntactic control and vocabulary expansion are emphasized. Conversational practice and traditional oral texts are used to develop proficiency. (F, Sp) [I-FL]

3113 Native American Philosophy. Prerequisite: junior standing or permission of instructor. A survey of systems of understanding and explaining the relationships between human beings and the natural world in Native American cultures including: concepts of power, spirituality, and ceremonialism; ethereal systems; and culturally based ways of knowing. (F) [IV-NW]

3333 Native American Film. Prerequisite: junior standing or permission of instructor. A critical investigation of the role that film, as an art genre, has played in creating the general public’s idea of the American Indian, and its construction of images representing that idea. (Su)

3693 Special Topics. Prerequisite: six hours of NAS courses. May be repeated twice with a change in topic. Covers topics of special interest to NAS such as politics and tribal government, contemporary health issues, educational policies and trends, and tribal culture in the U.S. and Oklahoma. (F, Sp, Su)

3863 Research Methods in Native American Studies. Prerequisite: junior standing and permission of instructor. Introduction to research methods emphasizing formulation of hypothesis, conceptualization of theory; elementary quantitative and qualitative sources of data and methods; and ethical standards in social and educational research. (F)

3960 Honors Reading. Prerequisite: admission to Honors Program and permission of instructor. May be repeated with change of content; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. This course will allow the honors candidate the opportunity to study materials not offered in other courses. (F, Sp, Su)

3980 Honors Research. Prerequisite: admission to Honors Program. May be repeated with change of content; maximum credit six hours. The study of issues related to Native American Studies for the gifted honors candidate allowing him/her to work on a special project. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: six hours of NAS major courses and permission of instructor. May be repeated; maximum credit six hours. Work on a topic of the student’s choosing taken under the direct supervision of a faculty member. May involve directed reading and research or participation in a community-based activity. Students will be required to give a written report or research papers. (F, Sp)

4013 Senior Capstone. Prerequisite: senior standing. Provides a culminating experience giving students the opportunity to incorporate knowledge gained through previous coursework. Students will integrate this knowledge into a final project. (Sp) [V]

4693 Contemporary Native American Artist (Crosslisted with ART 4693). Prerequisite: junior standing. Broad and modern sensibilities that make up the contemporary diversity of the indigenous arts and people of the North American hemisphere. May include but not limited to artwork dealing with race, class, tribal sovereignty, as well as formalist modes. Introduction to a survey of common methods of contemporary artistic practice. (Irreg.) [IV-NW]

4803 Native American Sovereignty. Prerequisite: six hours of courses that are required to satisfy the major, excluding the native languages. Students will learn what constitutes the basic nature of political sovereignty and how it is exercised in Indian communities and what the possibilities and limitations are for Indian tribal governments. (Sp)

4893 Introduction to Tribal Economic Development. Prerequisite: six hours required for the Native American Studies major excluding languages, or permission of instructor. Introduces students to the concept of tribal economic development and the various issues facing governments. Theories and roles of tribal economic development as it relates to the survival and continuation of tribal governments. (F)

4990 Independent Study. Prerequisite: nine hours of NAS courses and permission of Program Director or instructor. May be repeated; maximum credit six hours. The study of issues related to Native American Studies to include research and special projects. (F, Sp, Su)

G5050 Directed Readings in Native American Studies. Prerequisite: graduate standing. May be repeated with change of content; maximum credit 12 hours. Graduate-level independent study for Master’s candidates. (Irreg.)

G5103 Interdisciplinary Seminar. Prerequisite: graduate standing. An introduction to basic disciplinary approaches to the study of American Indian cultures and history and to current scholarship in history, anthropology, literature, and the arts dealing with American Indians. (F)

G9971 Pre-Thesis Seminar. Prerequisite: graduate standing. This course is a one-hour course to orient students to thesis research and assist them in the development of topics. It will meet in a concentrated format during the last third of the semester. (F)

G9980 Research for Master’s Thesis. Prerequisite: graduate standing. Variable enrollment, two to six hours; maximum credit applicable toward degree, six hours. (F, Sp, Su)

Naval Science (N S)

0110 Leadership Development. Designed to expose NROTC students to the professional development of a military officer. This is accomplished through military drill, guest lectures, command situation and role enactment training. The goal is to better prepare young men and women to serve as naval officers in various fleet assignments. (F, Sp, Su)

1112 Introduction to Naval Science. Mission and organization of the Naval Service. The concept of seapower to include strategic and political implications, military law, naval heritage, leadership, naval customs and traditions, rank and rate structure, military courtesies, honors and ceremonies; and an overview of different career fields and warfare communities. (F)

1133 Seapower and Maritime Affairs. Analyzes the influence of seapower on history and its relationship to national defense goals and policies, the role of the U.S. Naval Service in our national military strategy, the major historical events of the U.S. Navy and Marine Corps, and current trends in Soviet seapower. (Sp)

2113 Leadership and Management. Designed to teach introductory-level leadership and management concepts and applications to sophomore-level Naval ROTC midshipmen and all other interested University students. (Irreg.)
Organizational Dynamics (ODYN)

GS113 The Psychology of Leadership. Prerequisite: Graduate standing or permission of instructor. Focuses on the theories, principles, and practice of leadership in organizational settings; particular focus on technologically based organizations, leading change in organizations, and leading teams. (Irreg.)

GS123 Organizational Behavior and Organizational Innovation. Prerequisite: Graduate standing or permission of instructor. Covers the dynamics of behavior in organization such as communication, job design, innovation and learning in groups and teams, and organizational effectiveness within the context of technical innovation and organizational change. (Irreg.)

GS133 Teams and Motivation. Prerequisite: Graduate standing or permission of instructor. Team formation, socialization and identity; team problem solving, individual and collective motivation, conflict and power, learning and team development, and group liabilities. (Irreg.)

GS143 Human Resource Management Techniques. Prerequisite: Graduate standing or permission of instructor. Survey of theory and practice in primary areas of human resource management such as workforce planning, recruiting, selection and staffing, performance management, compensation, and training and development. (Irreg.)

GS153 Design, Evaluation, and Statistics. Prerequisite: Graduate standing or permission of instructor. Covers applied research designs such as quasi-experimental and correlation designs; covers basic statistics, hypothesis testing, correlation/multiple regression, and quality control models. Focus will be on application of statistics in organizational problem solving. (Irreg.)

GS163 Applied Measurement and Analysis. Prerequisite: graduate standing or permission of instructor. Focuses on teaching principles and practices of individual and organizational assessment, covering concepts such as validity, reliability, survey and instrument development, and characteristics of organizational data. Techniques for analyzing organizational data and conducting program evaluation will also be discussed. (Irreg.)

GS173 Technology and Organizations. Prerequisite: Graduate standing or permission of instructor. Technology impacts every aspect of organizational life. Focus is on the role of technology in obtaining, accessing, moving, and storing knowledge and information, technology and patterns of interaction and communication, automation of work processes, and other topics. (Irreg.)

GS183 Capstone Project. Prerequisite: Graduate standing or permission of instructor. This capstone project will involve “real-world” application of the material covered in the program. (Irreg.)

GS213 Survey of Industrial and Organizational Psychology. Prerequisite: 5153 or permission of instructor. Overview of theories and practices used in the field of industrial and organizational psychology; emphasis is on application of general principles of psychological theory in the workplace, considering individual, group, and organizational levels. (Irreg.)

GS223 Performance Management. Prerequisite: 5153 and 5163, or permission of instructor. Covers basic approaches to motivating and developing individuals to perform well within organizational settings; includes discussion of alternative methods for measuring and assessing individual, team, and organizational performance. (Irreg.)

GS223 Training and Career Development. Prerequisite: Graduate standing or permission of instructor. Overview of principles, theories, and practices of learning and development in organizations. Application of various training techniques and designs will be covered as well as roles of different organizational constituencies in employee training and development. (Irreg.)

GS243 Staffing, Selection, and Compensation. Prerequisite: Graduate standing or permission of instructor. Focuses on recent, state-of-the-art processes and technologies for organizational staffing, personnel selection, and employee benefits and pay. Relevant theories in these areas will be reviewed. (Irreg.)

GS253 Organizational Development. Prerequisite: Graduate standing or permission of instructor. Explores theories and practices related to the planned process of changing an organization or group’s culture to increase organizational productivity and effectiveness. Topics such as organizational assessment and diagnosis, continuous learning, problem solving sessions, reward systems, visioning, and empowerment will be covered. (Irreg.)

GS263 Human Resource Management Systems. Prerequisite: 5123 or permission of instructor. Focuses on a systems approach to human resource management, including how aspects of HRM are interrelated, as well as strategies and technologies being used to perform various HRM functions. (Irreg.)

GS273 Topics in Human Resource Management. Prerequisite: Graduate standing or permission of instructor. In-depth examination of existing and emerging issues and problems facing human resource professionals who work as internal or external consultants and administrators. May include issues such as human resource costing, equal employment opportunity, downsizing, selection, training, and globalization. (Irreg.)

GS313 Planning Processes and Strategy Development. Prerequisite: Graduate standing or permission of instructor. Overview of principles and practices of planning and strategy development. Planning processes will be examined at micro as well as macro organizational levels; organizational strategies such as succession planning and workforce planning will be discussed. (Irreg.)

GS323 The Psychology and Practice of Project Management. Prerequisite: Graduate standing or permission of instructor. Focuses on strategies and steps involved in developing project proposals and workplans. Includes topics such as needs assessment, budgeting, resource utilization, managing diverse project teams, troubleshooting, and others. (Irreg.)

GS333 Customer Service and Market Analysis. Prerequisite: 5153 or permission of instructor. Principles, theories and applications of market analysis and customer service will be reviewed; techniques for gathering, assessing, and analyzing market and customer data will be covered; techniques for improving customer service will be discussed. (Irreg.)

GS343 Organizational Communication. Prerequisite: Graduate standing or permission of instructor. Overview of theories and systems of communication in organizational settings. Various forms and effectiveness of communication as well as purposes and strategies at different organizational levels will be covered. (Irreg.)

GS353 Global Business Practice and Ethics. Prerequisite: Graduate standing or permission of instructor. Covers the relationship between organizations and global markets. Explores how organizational systems work together to meet global demands, system breakdowns, and assessment of organizational performance. (Irreg.)

GS363 Ethics. Prerequisite: Graduate standing or permission of instructor. Overview of moral philosophies, principles and ethical practices in business and industrial settings. (Irreg.)

GS373 Technology Management and Industrial Engineering. Prerequisite: Graduate standing or permission of instructor. Overview of principles, theories and practices of industrial engineering. Will cover integrated product/service and operational process design; productivity and quality improvement; use of technology; and operations management. (Irreg.)
Petroleum Engineering (P E)

2012 Introduction to Petroleum Engineering Systems. Prerequisite: Chemistry 1415, Engineering 1112, Mathematics 2423, and Physics 2514. Overview of petroleum engineering systems including: uses of petroleum products, exploration, exploitation subjects such as drilling, production, reservoir and formation evaluation, transportation and refining; marketing; government regulation and political influence. (F)

2281 Engineering Co-Op Program (Crosslisted with AME, CH E, E E, C S, ECE, ENGR, E PHY, E S, G E, IE 2281). Prerequisite: student participation in the program. The Co-Op program provides student place in jobs outside the University, but in a position related to the student’s major. On completion of a semester work period, the student submits a brief written report. One hour of credit (elective) granted for each work period, with a maximum credit of six hours. (F, Sp, Su)

3021 Technical Communications. Prerequisite: 2012, Engineering 1112, English 1213, and junior standing. Reading for technical understanding; planning and writing technical reports; active listening; preparing and delivering oral technical presentations. (F)

3113 Production Engineering (Crosslisted with Geological Engineering 3113). Prerequisite: 3123, Engineering 3223. Single and two-phase flow through pipes, gas lift, sucker rod pumping, submersible pumps, fluid separation, gas dehydration, pipeline system design, corrosion control. (Sp)

3123 Petroleum Reservoir Fluids. Prerequisite: 3213 and Engineering 2213. Properties of petroleum of properties of gases, phase behavior of liquids, qualitative and quantitative phase behavior of hydrocarbon systems, reservoir fluid characteristics. Application of these concepts to the prediction of gas and gas-condensate reservoir behavior. (F)

3153 Petrophysics. Prerequisite: 3123, Engineering 2313; corequisite, Engineering 3223. Porosity, structure, fluid content permeability and flow of fluids in reservoir rocks, and properties responding to well logs. Laboratory (F)

3213 Reservoir Rock Properties. Prerequisite: 2012, Geology 1114; corequisite: 3221. Fundamental course establishing primary petrophysical concepts, properties and their measurement. Covers rock types, distribution, composition and structure, porosity, permeability, resistivity, wettability, water saturation, elastic moduli and includes effects of pressure and temperature on rock properties. (Sp)

3221 Rock Properties Laboratory. Prerequisite: Geology 1114; corequisite: 3213. Laboratory course aimed at exposing the student to the measurement and analysis of reservoir properties such as porosity, permeability, fluid saturation, grain size, elastic moduli and pore throat sizes. The course will stress safety concerns appropriate for all laboratory procedures, error analyses and report writing. (Sp)

3303 Drilling Engineering (Crosslisted with Geological Engineering 3303). Prerequisite: 3123, Engineering 2153, 2223. History of drilling, methods and equipment, well kicks and blowouts, drilling fluids, pressure losses in circulating systems, penetration rate, rotary drilling techniques, formation damage, drilling costs. (Sp)

3313 Drilling and Completions I. Prerequisite: 3123, Engineering 3223, and Geology 1114. Drilling operations, drilling costs and economics, drilling fluids, pressure losses in circulating systems, rotary drilling bits and penetration rate, rotary drilling techniques, pore and fracture gradients. (F)

3413 Subsurface Production Engineering. Prerequisite: 3123, 3313. Tubing and packer design; hydraulic fracturing and acidizing; oil and gas well performance; vertical lift and choke performance; systems analysis; production operations. (Sp)

3513 Reservoir Engineering Fundamentals. Prerequisite: 3123, 3213, and Mathematics 3113. Fundamentals of evaluation of oil and gas reservoirs. Reservoir volumetrics; material balance; Darcy’s law and equation of continuity; diffusivity equation; streamlines; well models; introduction to well testing; decline curve analysis; natural water influx. (Sp)

3813 Formation Evaluation with Well Logs. Prerequisite: 3123, 3213, and Geology 4113. Basic formation evaluation concepts, borehole environment, principles of resistivity, radiation, thermal and elastic wave measurements and measuring tools, applications to formation evaluation using commercial software package. (Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Covers materials not usually presented in regular coursework. (F, Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework. (F, Sp)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work on a special project in the student’s field. (F, Sp)

G403 Oil, Gas and Environmental Law. Prerequisite: senior standing. Review and analysis of legal principles and leading cases related to oil and gas exploration, production and marketing in the areas of land titles, leases, operating agreements, contracts, acquisitions, gas marketing, environmental regulation, pollution, and litigation. (F)

4113 Oil Field Development. Prerequisite: senior standing, permission. (For non-engineering majors only). Properties of petroleum fluids and reservoir rocks; geophysical environment and exploration methods; drilling and completion methods; well testing; producing mechanisms, evaluation methods. (F)

G4233 Subsurface Engineering and Tunneling, Drilling. Prerequisite: senior standing in engineering or permission. Engineering properties of earth materials, theories of rock failure, tunneling, mining and excavation procedures; nature of geologic hazards; geothermal, oil shale, oil mining, earthquake, rock bolting, permafrost engineering, etc. (F)

4313 Well Completions and Stimulation. Prerequisite: 3303. Well completion selection, casing design, cementing, perforating, hydraulic fracturing, acidizing and chemical stimulation, sand control, well testing. (F)

4323 Drilling and Completions II. Prerequisite: 3313 and 3413. Wellbore configuration, well planning, casing design, direction control, drilling program preparation, offshore operations, cost control and AFE, post-drilling review, and economics. (F)

4331 Drilling and Production Engineering Laboratory. Prerequisite: 3021, 3413, 4323; corequisite: 4423. Properties of drilling and completion fluids; well control; oil and gas well testing; production operations; evaluation of artificial lift systems; gas measurement. (Sp)

4413 Oil Field Management and Evaluation. Prerequisite: 4453. Application of reservoir engineering principles and petroleum economics to the evaluation of oil and gas properties; interpretations of well data; oil property management. (Sp) [V – with 4692]

4423 Surface Production Engineering. Prerequisite: 4323. Artificial lift design; sucker rod pumping, electric submersible pumping, plunger lift, and gas lift; design of surface production equipment; oil and gas separation; oil treating; gas dehydration; single and two-phase flow through pipes, fluid measurement; pipeline system design. (Sp)

G4453 Oil Reservoir Engineering. Prerequisite: 3123, 3153 and Engineering 3723. Darcy’s Law and its applications; well inflow equations for stabilized flow conditions; oil well testing; gas well testing; material balance equations; predicting reservoir performance; natural water inflow; immiscible displacement. (F)

G4462 Reservoir Mechanics Laboratory. Prerequisite: 4453 or enrollment in 4453. Hydrocarbon phase behavior, saturation pressure, mercury injection method for determining capillary pressures; secondary recovery by gas flooding; gas-oil relative permeability; waterflood studies of plug samples at reservoir overburden pressure; laminar flow studies; enhanced oil recovery, surfactant flooding, polymer flooding; in situ combustion. Laboratory (F)

4521 Reservoir Fluid Mechanics Laboratory. Prerequisite: 3021, 3513; corequisite: 4533. Laboratory experiences in hydrocarbon phase behavior, saturation pressure, real fluid properties, relative permeability, secondary recovery by water flooding and gas displacement; volumetric reserve estimation, statistical analyses of core data, two-dimensional flow, enhanced oil recovery using surfactants and polymers. (F)

4533 Applied Reservoir Engineering. Prerequisite: 3513, and Engineering 3723. Advanced reservoir engineering concepts required for effective production of oil and gas. Reservoir characterization; reservoir heterogeneity and anisotropy; recovery mechanisms; Leverett J-functions; upscaling; flow simulation; history matching and forecasting; uncertainty and risk. (F)

4543 Improved Recovery Techniques. Prerequisite: 3413, 4323, and 4533. New wellbore and reservoir techniques for improved recovery. Feasibility analysis; diagnostic techniques; single well operations; infill drilling; horizontal wells and multilaterals; waterflooding; enhanced oil recovery. (Sp)

4553 Integrated Reservoir Management. Prerequisite: 4323, 4533, 4713, and Geophysics 3423. Application of petroleum engineering and geoscience principles to the design of the reservoir management plan. The management environment; integrated reservoir description; performance prediction; developing the reservoir management plan; economics. (Sp)
1G4602 Natural Gas Engineering Laboratory. Prerequisite: 3113, 3123. Determination of specific gravity and deviation factor of gases; chemical analysis of gas mixtures, determination of gas permeability; testing and calibration of orifice meters, positive displacement meters and regulators; pressure loss measurement along pipes; bottom hole pressure calculations; gas well testing; reservoir evaluation. Laboratory 3 credits. (F – with 4413)

4713 Petroleum Project Evaluation. Prerequisite: 3413, 3513, and 3813. Application of petroleum engineering principles and economics to the evaluation of oil and gas projects; evaluation principles, time value of money concepts, and investment measures; cost estimating, price and production forecasting; risk and uncertainty, project selection, and capital budgeting. (F)

4990 Special Studies. 1 to 4 hours. Prerequisite: senior standing. Special research on current or special problems. If, Sp, Su

G5133 Non-Newtonian Fluid Mechanics (Crosslisted with Geophysical Engineering 5133). Prerequisite: Engineering 3223 or equivalent. Characteristics of stress in fluids, the role of Newtonian fluid mechanics, extension of Newtonian analysis to Bingham plastics, fluids without yield stress, time dependent non-Newtonian fluids, laminar and turbulent flow, boundary layers in non-Newtonian fluids. (Sp)

G5143 Fluid Flow in Porous Media (Crosslisted with Geological Engineering 5143). Prerequisite: 4513, graduate standing. Physical concepts involved in the flow of fluids in porous media; treatment of Darcy’s Law in a mathematical sense; the concept of relative permeability applied also in a mathematical sense. (F)

G5243 Introduction to Rock Mechanics (Crosslisted with Geological Engineering 5243). Prerequisite: senior standing in engineering or permission. Engineering properties of rock; rock testing techniques; in situ methods; mathematical approach to stress-strain analysis; discontinuities in rock; applications for underground openings; rock slopes; foundations and drilling. (Sp)

G5353 Advanced Drilling. Prerequisite: 3213, Engineering 3723, Geology 3113, permission. Cost control, hole problems, planning a well, drilling; muds, drililing fluid solids removal, pressure losses, lifting capacity of drilling fluids, surge and swab pressures, pore pressure and fracture gradients, pressure control, well control equipment, blowouts, deviation in boreholes, rotary drilling bits. (F)

G5423 Advanced Stimulation. Prerequisite: graduate standing or permission. Theory and application of continuum mechanics concepts to hydraulic fracturing, acidizing, acid fracturing and other stimulation processes. (Irreg.)

G5433 Horizontal Well Technology. Prerequisite: engineering degree or equivalent. Horizontal well technology including: horizontal drilling, horizontal well completions and stimulation, pumping and lift systems, well testing, horizontal wells in waterflooding and enhanced oil recovery, costs, economics, regulations, tax incentives. (F)

G5443 Formation Damage (Crosslisted with GEOL 5443). Prerequisite: graduate standing or permission of instructor. This course presents an overview of the common formation damage processes, mechanisms, theories, and parameters; methods for diagnosis, determination, and control of formation damage; and application for mathematical models for analysis of laboratory and field data. (Irreg.)

G5533 Petroleum Reservoir Development (Crosslisted with Geophysical Engineering 5533). Prerequisite: 4223, 4513, Engineering 3723, Geology 3113 or permission. Petroleum reservoir development and extension, simulation methods for evaluating a petroleum reservoir, schemes for oil field development. Engineering application of logging and geological, fluid and well-testing data. Student-oriented reservoir simulation projects. (Sp)

G5543 Advanced Waterflooding. Prerequisite: senior standing. 4511, 4523. Evaluating and operating secondary recovery projects; fundamental consideration of petroleum engineering and reservoir behavior applied to secondary recovery of oil. (F)

G5553 Well Testing Analysis. Prerequisite: 4513 or graduate standing. Diffusivity equation; exponential integral solution; principle of superposition; drawdown testing, skin effects, wellbore storage, type curve matching, reservoir limit test; buildup testing, bounded reservoirs, average reservoir pressure; drill stem testing; interference testing; pulse testing; reservoir heterogeneities; anisotropy, stratification, sealing faults. (F)

G5563 Mathematical Simulation Models. Prerequisite: graduate standing, permission. Principles of simulating engineering systems by partial differential equation systems; considers the use of engineering principles in formulating mathematical simulation models and analytic techniques for solving the resulting mathematical models. (Sp)

G6033 Introduction to Natural Gas Engineering and Management. Prerequisite: graduate standing. Global natural gas supply and demand, international gas trade and infrastructure, gas policy, regulation, safety and environmental issues, natural gas resource base: conventional and unconventional, gas exploration, drilling and production, gas processing, storage and pipeline, gas trading and marketing, gas utilization, LNG, chemicals. (F)

G6513 Natural Gas Engineering. Prerequisite: Graduate standing or permission of instructor. Review of properties of natural gases and condensate systems; gas flow in porous media; gas reservoir engineering; gas field development; gas condensate reservoirs; natural gas transportation and storage. (Alt) (Sp)

G6523 Natural Gas Processing. Prerequisite: graduate standing or permission of instructor. Gas conditioning; processing of gas for its liquids; design of adsorption and absorption facilities; fractionation design. (Alt) (Sp)

G6533 Application of System Dynamics in Natural Gas Management. Prerequisite: graduate standing. The limits of classical rationality and decision making, mental model and system thinking, cognitive mapping and hexagon modeling process. Causal loop diagramming, system thinking and system dynamics, strategic planning and scenario management, business simulation tools—Powerism and Ifling, applications in natural gas business process. (Irreg.)

G5812 Research in Special Petroleum Engineering Problems. (Sp, Su)

G5822 Research in Special Petroleum Engineering Problems. Prerequisite: 5812. (F)

G5971 Seminar in Petroleum Engineering. Prerequisite: graduate standing. Current petroleum literature, lectures, and reports; emphasis upon reservoir behavior and conservation. (F, Sp)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G5990 Research for Master’s Thesis. 1 to 4 hours. Prerequisite: graduate standing in petroleum engineering. May be repeated with change of topic; maximum credit twelve hours. Supervised individual study or specialized research in petroleum engineering. (F, Sp, Su)

G6153 Transport Phenomena in Porous Media (Crosslisted with Geophysical Engineering 6153). Prerequisite: 5143 or equivalent. Fundamental theory of rias, momentum and energy transport in porous media. Emphasis placed upon enhanced oil recovery processes, in situ energy extraction, and other processes relevant to energy production. (Irreg.)

G6253 Advanced Petrophysics (Crosslisted with Geoscientific Engineering 6253). Prerequisite: 4513, 4522, graduate standing or permission. Techniques of sampling petroleum reservoirs with emphasis upon the rock and fluid properties. (Irreg.)


G6283 Seismic Reservoir Modeling (Crosslisted with GEOL/GE 6283). Prerequisite: Graduate standing or permission of instructor. This course is designed to explore the seismic response of rocks and how it is related to petrophysical parameters. This understanding is key to interpretation of seismic data in terms of subsurface rocks and fluids. (F)

G6443 Petroleum Production Systems (Crosslisted with Geological Engineering 6443). Prerequisite: graduate standing, permission. Principles of the development and operation of petroleum production systems. Consideration of the combined behavior of the reservoirs, the surface equipment, the pipeline system and the storage facilities. Optimization of these systems for various production schedules using queuing theory, linear programming and dynamic programming. (Irreg.)

G6573 Advanced Reservoir Engineering (Crosslisted with Geophysical Engineering 6573). Prerequisite: 4513, 4523 and graduate standing. Optimization of material balance equations; saturation calculations, with and without counterflow; dynamics of water drive reservoirs; accelerated blowdown of strong water drive gas reservoirs; conformal mapping of oil and gas fields; the subsidiary equation; tracer methods; streamlines; miscible processes; dispersion models and optimum solvent slug size. (Irreg.)

G6583 Enhanced Oil Recovery (Crosslisted with Geophysical Engineering 6583). Prerequisite: graduate standing or permission. New principles of recovery of oil and gas fields including: polymer, surfactants, miscible recovery processes, inert gas injection, emulsions, steam, in situ and wet combustion techniques. (Sp)

G6612 Drilling Fluids (Crosslisted with Geological Engineering 6612). Prerequisite: graduate standing and permission of instructor. Theory and practical application of drilling fluids based upon the theory of colloid chemistry and the technology of fine particles. (Irreg.)
1013 **Introduction to Philosophy.** Basic problems of philosophy explored through a consideration of selected philosophers. (F, Sp, Su) [I-AVWC]

1103 **Critical Reasoning.** An informal survey of evaluative principles of reasoning. The application of these principles is emphasized, and common errors and fallacies in everyday, ethical, legal, and scientific reasoning are discussed. This course is not a course in formal symbolic logic or mathematical logic. (F, Sp) [III-SS]

1113 **Introduction to Logic.** Prerequisite: MATH 0123 or satisfactory score on Math placement test. An introduction to modern logic and its applications. Emphasis is placed on deductive logic, but may also include some treatment of inductive logic. Various common fallacies and errors in reasoning will also be studied. (F, Sp, Su) [I-O]

1202 **Philosophy and Human Destiny, East and West.** An inquiry into values bearing upon human destiny or fulfillment with special attention to values inspired by religion in both western and eastern traditions. (Irreg.) [I-AVWC]

1213 **Introduction to Ethics.** Basic issues in moral philosophy examined through a consideration of selected philosophers, including a sampling of normative theories as well as an introduction to issues of metaethics. (F, Sp, some Su) [I-AVWC]

2023 **Existentialism, Its Sources and Influences.** The historical background and cultural impact of existentialism in its literary, religious, psychiatric and philosophical expressions. Stresses Kierkegaard, Heidegger and Sartre. Briefly treats Nietzsche, Jaspers, Benda, Maslow, Beckett, etc. (I-AVWC)

2403 **Introduction to Philosophy of Religion.** A systematic critical discussion of religious world-views. Topics covered include definitions of religion, reason and faith, authority, proofs for God's existence, evil and immortality. (Irreg.) [I-AVWC]

2900 **Special Topics.** 1 to 4 hours. May be repeated with change of topic; maximum credit nine hours. Topics in philosophy not accommodated by the existing curriculum will be taught from time to time (examples: Islamic philosophy, Navajo thought, feminism). (Irreg.) [I-AVWC]

Unless otherwise noted, the prerequisite for courses in philosophy numbered 3000-3999 is six hours of philosophy or junior standing.

3033 **Philosophy and Literature.** Literature expresses in concrete form what philosophy discusses in abstract terms: views of the world that humans inhabit; views of the nature of human freedom and rationality; and views of the good human life. Use of literature to illustrate philosophical issues, and philosophy to reveal the unstated assumptions and implications of selected literary works. (Irreg.) [I-AVWC]

3043 **Philosophy and Film.** Prerequisite: six hours of philosophy or junior standing. Use of films to shed light on philosophical issues, and philosophy to reveal the philosophical assumptions and implications of selected films. Training in philosophical modes of thought can enrich our understanding of film—as of other cultural products and activities—by revealing dimensions that might otherwise go unnoticed or insufficiently appreciated. (Irreg.) [I-AVWC]

3113 **Reasoning, Judgment and Decision Making.** Prerequisite: six hours of philosophy or junior standing; and MATH 0115 or equivalent; math placement test. This course covers the three basic approaches to reasoning and decision making. The first (normative) component covers the basics of probability theory and decision theory. The second (descriptive) component focuses on research on the ways people actually reason. The third (prescriptive) component focuses on ways of improving reasoning. (Irreg.) [II-M]

3123 **Logic and Scientific Method.** Recommended especially for students majoring in the sciences, engineering or business. An introduction to scientific method and some aspects of logic. (Irreg.) [I-O]

3253 **History of Ethics.** Prerequisite: six hours of philosophy. A survey of the major figures in the history of moral philosophy with emphasis on their interrelations, influences on each other and effect on contemporary moral philosophy. (Spi) [I-AVWC]

3273 **Ethics and Business.** Prerequisite: Six hours of philosophy or junior standing. A study of how ethics illuminates business activities. Topics include: the philosophical bases of capitalism; the legitimacy of the profit motive; virtue and the marketplace; corporate responsibility; government regulation; the marketplace and the environment; the ethics of advertising; employee privacy; and the challenges posed by the developing information age. (Irreg.) [I-AVWC]

3283 **Religion and the Environment.** Prerequisite: Six hours of philosophy or junior standing. Will examine how various religious traditions serve as the source of different philosophical visions of human beings' place in the environment. (Irreg.) [I-AVWC]

3293 **Environmental Ethics.** Prerequisite: junior standing or permission of instructor. Surveys the field of environmental ethics. Various principles philosophers use to assign value to the natural world and assign obligations toward nature to human beings are examined by students in order to articulate and defend their own reasoned points of view on environmental questions. (Irreg.) [I-AVWC]

3303 **East Asian Philosophy.** Prerequisite: six hours of philosophy or junior standing. Survey and analysis of the major texts and schools of philosophy in East Asia (China, Korea, Japan, and surrounding regions). Included are Confucianism, Taoism, and Buddhism. (Irreg.) [I-ANW]

3313 **History of Ancient Philosophy.** Prerequisite: six hours of philosophy. A survey of Greek and Roman philosophy with concentration on selected readings in classical philosophy. (I-AVWC)

3333 **History of Modern Philosophy.** Prerequisite: six hours of philosophy. A survey of modern European philosophy with concentration on selected readings from the Renaissance through Kant. (Spi) [I-AVWC]

3353 **American Philosophy.** A study of important American philosophers and philosophical movements, from Jonathan Edwards through pragmatism. (Irreg.) [I-AVWC]

3393 **Twentieth-Century Anglo-American Philosophy.** Prerequisite: six hours of philosophy or junior standing. Examine major philosophical works from the early twentieth century, drawing from both the logical positivist and pragmatic traditions. The course will trace the development and influence of these theories through the latter part of the century, with an eye toward a better understanding of both the original theories themselves and the subsequent work they inspired and influenced. (Irreg.) [I-AVWC]

3423 **Ancient and Medieval Religious Philosophy.** Prerequisite: six hours of philosophy or junior standing. Covers the history of religious philosophy in the West from ancient Greece until the 16th century. Major figures studied include Plato, Aristotle, the Stoics, Plotinus, Augustine, Boethius, Anselm, Maimonides, Aquinas, Averroes, Scotus, Ockham, and the Reformers. (Irreg.) [I-AVWC]

3433 **Modern Philosophy of Religion.** Prerequisite: six hours of philosophy or junior standing. Covers the history of modern religious philosophy in the West from the 17th to the mid-20th centuries. Major figures studied include Descartes, Pascal, Leibniz, Locke, Hume, Kant, Kierkegaard, Nietzsche, Clifford, James, Freud, and Wittgenstein. (Irreg.) [I-AVWC]

3443 **Contemporary Issues in Philosophy of Religion.** Prerequisite: six hours of philosophy or junior standing. Issues currently debated in philosophy of religion. Topics include the rationality of religious belief, the problem of evil, the dilemma of divine foreknowledge and human free will, life after death, the relationship between science and religion, and religion and public policy. (Irreg.) [I-AVWC]

3503 **Self and Identity.** Prerequisite: 1013 or permission of instructor. Introduction to a number of philosophical topics about the self including personal identity, immortality, unity of self-consciousness, self-knowledge, and nature of self. (Irreg.) [I-AVWC]

3533 **Language, Communication, and Knowledge.** Prerequisite: six hours of philosophy or junior standing. The nature of language and communication as studied by linguists and philosophers. Topics will include the nature of meanings; the relationship between syntax, semantics, and pragmatics; and the transmission of knowledge through testimony. Combines philosophical readings with readings from the empirical sciences. (Irreg.) [I-AVWC]

3613 **Philosophy of Biology.** Prerequisite: Six hours of philosophy or junior standing. Philosophical issues raised by evolutionary theory. Topics include: creationism versus evolutionary theory; what makes a hypothesis scientific; can evolutionary theory explain psychological or cultural phenomena? (Irreg.) [I-AVWC]

3623 **Philosophical Issues in Physics and Cosmology.** Prerequisite: six hours of philosophy or junior standing. Focus on philosophical issues raised by relativity theory (e.g. the nature of space and time), quantum theory (e.g. non-local action, the measurement problem), and cosmology (e.g. how did the universe begin, will it end and how, and what sense can be made of the universe beginning and ending?). (Irreg.) [I-AVWC]

3713 **History of Social and Political Philosophy.** Prerequisite: for non-majors, eight hours of social science. A survey of the views of major philosophers from Plato to the nineteenth century on the nature of man's relation to society and to the state in the context of their wider philosophical (logical, epistemological, metaphysical and ethical) doctrines. Plato, Aristotle, Aquinas, Hobbes, Locke, Rousseau, Hegel and Marx are the chief figures covered, though others will be considered as time permits. (Irreg.)

3723 **Contemporary Social and Political Philosophy.** Prerequisite: six hours of philosophy or junior standing. A study of contemporary discussions of
political legitimacy, political obligation, democracy, theories of justice and desert, and accounts of individual and group rights. Topics include issues such as political liberalism and its contemporary critiques; discourse-based political theory; theories of procedural and deliberative democracy; and cultural pluralism. (Irreg.) [IV-WC]

3900 Special Topics. 1 to 4 hours. May be repeated with change of topic, maximum credit nine hours. Topics in philosophy not accommodated by the existing curriculum will be taught from time to time. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student’s major program. Topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student’s field. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

Unless otherwise noted, the prerequisite for courses in philosophy numbered 4000-4999 is eight hours of philosophy. Other specific prerequisites are so indicated.

G4133 Symbolic Logic I. An introduction to the symbolism and methods of modern deductive logic. (F)

4293 Ethical Theory (Slashlisted with 5293). Prerequisite: eight hours of philosophy including an ethics course or permission. A survey of theories of the nature and foundations of morality. Topics may include the analysis of moral language, the justification of moral beliefs, and the status of ethical theories. No student may earn credit for both 4293 and 5293. (Sp)

4473 Philosophy of Religion (Slashlisted with 5473). Prerequisite: eight hours of philosophy or permission. Survey of topics in the philosophy of religion. Topics covered include the concept of God, the problem of religious knowledge, the nature of religious language, the problem of evil, and particular thinkers. No student may earn credit for both 4473 and 4573. (Irreg.)

4513 Metaphysics (Slashlisted with 5513). Prerequisite: eight hours of philosophy or permission. Survey of major philosophical views about the nature of reality. Topics covered may include the mind-body problem, causation, personal identity, free will and determinism, universals, and the existence of God. No student may earn credit for both 4513 and 5513. (Sp)

4523 Epistemology (Slashlisted with 5523). Prerequisite: eight hours of philosophy or permission. Survey on the evaluation of human reasoning and the nature and scope of human knowledge. Topics include skepticism, the nature of justification, the ethics of belief, and the problem of induction. No student may earn credit for both 4523 and 5523. (F)

4533 Philosophy of Language (Crosslisted with Linguistics 4533; Slashlisted with 5533). Prerequisite: eight hours of philosophy or permission. Survey of major philosophical views on the nature and workings of language. Topics covered include: meaning and truth, sense and reference, speech acts, and communication. No student may earn credit for both 4533 and 5533. (Irreg.)

4543 Philosophy of Mind (Crosslisted with Linguistics 4543; Slashlisted with 5543). Prerequisite: eight hours of philosophy or permission. Survey of major philosophical views on the nature of the mind. Topics covered may include: the nature and unity of consciousness, the mind-body problem, personal identity, the emotions, actions and intentions, self-knowledge, and other minds. No student may earn credit for both 4543 and 5543. (Irreg.)

4613 Philosophy of Science (Slashlisted with 5613). Prerequisite: eight hours of philosophy or permission. Survey of main issues in the philosophy of science. Topics will include the structure of scientific theories, theory testing, and the rationale of scientific methodologies. The rationality of scientific belief and the problem of induction may also be discussed. No student may earn credit for both 4613 and 5613. (Irreg.)

4623 Philosophy of the Social Sciences (Slashlisted with 5623). Prerequisite: nine hours of upper-division social sciences or permission. Survey of issues in the philosophy of the social sciences. Topics covered will include explanation in the social sciences, theory construction, theories and observation, evidence and theory of confirmation, theoretical constructs and operationism, verstehen and objectivity. No student may earn credit for both 4623 and 5623. (Irreg.)

4763 Philosophy of Law (Slashlisted with 5763). Prerequisite: eight hours of philosophy or permission. Survey of philosophical treatments of concepts and problems fundamental to the law, including (a) the origin, ground, status, justification and language of laws and systems of laws; (b) legal right and duties; and, (c) the nature and justification of legal sanctions. No student may earn credit for both 4763 and 5763. (Irreg.)

4893 Senior Capstone in Philosophy. Prerequisite: graduating majors. Covering the major areas of philosophy taught in the undergraduate major, coordinated with the departmental objectives for undergraduate majors and for the purpose of assessing the level of learning among graduating seniors. (Sp) [V]

4900 Special Topics. 1 to 3 hours. Prerequisite: eight hours of philosophy. May be repeated with change of topic; maximum credit nine hours. Topics in philosophy not accommodated by the existing curriculum. (Irreg.)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

Unless otherwise noted, the prerequisite for courses in philosophy numbered 5000 and above is twelve hours of philosophy. Other specific prerequisites are so indicated.

G5143 Symbolic Logic II (Crosslisted with Linguistics 5143). Further study of first order predicate logic: identity, axiomatic development. Various metatheorems; soundness, consistency and completeness. (alt. Sp)

G5293 Ethical Theory (Slashlisted with 4293). Prerequisite: graduate standing. A survey of theories of the nature and foundations of morality. Topics may include the analysis of moral language, the justification of moral beliefs, and the status of ethical theories. No student may earn credit for both 4293 and 5293. (Sp)

G5313 Studies in Ancient Philosophy. Prerequisite: 3313. May be repeated with change of content; maximum credit eighteen hours. Survey of philosophical writings of a major ancient Greek philosopher, typically Plato and Aristotle. Works covering different philosophical topics and written at different stages in the philosopher’s development will be studied. Selection of figure will alternate each year the course is offered. (Sp)

G5333 Studies in Modern Philosophy. May be repeated with change of content; maximum credit eighteen hours. Survey of philosophical writings of major philosophers. Figures covered will alternate each year between the Rationalists (Descartes, Leibniz, and Spinoza) and the Empiricists (Locke, Berkeley, and Hume), though other combinations (e.g., Locke and Leibniz) may be offered. (F)

G5353 Studies in American Philosophy. May be repeated with change of content; maximum credit eighteen hours. Survey of philosophical writings of a major American philosopher or group of American philosophers. (Irreg.)

G5473 Philosophy of Religion (Slashlisted with 4473). Prerequisite: graduate standing. Survey of topics in the philosophy of religion. Topics covered include: meaning and truth, sense and reference, speech acts, and communication. No student may earn credit for both 4533 and 5533. (Irreg.)

G5513 Metaphysics (Slashlisted with 4513). Prerequisite: graduate standing. A survey of major philosophical views about the nature of reality. Topics covered may have included the mind-body problem, causation, personal identity, free will and determinism, universals, and the existence of God. No student may earn credit for both 4513 and 5513. (Sp)

G5523 Epistemology (Slashlisted with 4523). Prerequisite: graduate standing. Survey on the evaluation of human reasoning and the nature and scope of human knowledge. Topics may include skepticism, the nature of justification, the ethics of belief, and the problem of induction. No student may earn credit for both 4523 and 5523. (F)

G5533 Philosophy of Language (Crosslisted with Linguistics 5533; Slashlisted with 4533). Prerequisite: graduate standing. Survey of major philosophical views on the nature and workings of language. Topics may include: meaning and truth, sense and reference, speech acts, and communication. No student may earn credit for both 4533 and 5533. (Irreg.)

G5543 Philosophy of Mind (Crosslisted with Linguistics 5543; Slashlisted with 4543). Prerequisite: graduate standing. Survey of major philosophical views on the nature of the mind. Topics may have included: the nature and unity of consciousness, the mind-body problem, personal identity, the emotions, actions and intentions, self-knowledge, and other minds. No student may earn credit for both 4543 and 5543. (Irreg.)

G6613 Philosophy of Science (Slashlisted with 4613). Prerequisite: graduate standing. Survey of main issues in the philosophy of science. Topics may include the structure of scientific theories, theory testing, and the rationale of scientific methodologies. The rationality of scientific belief and the moral constraints of
Course Descriptions

Physics (PHYS)

G6763 Seminar in Philosophy of Law. Prerequisite: 5763 or permission. May be repeated with change of content; maximum credit 12 hours. Intensive seminar on a topic in the philosophy of law. (Irreg.)

G6793 Seminar in Social and Political Philosophy. May be repeated with change of subject matter; maximum credit fifteen hours. (Irreg.)

G6980 Research for Doctor’s Dissertation. (F, Sp, Su)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

1114 General Physics for Non-Science Majors. Prerequisite: high school algebra II. Not open to students who intend to do major work in mathematics or physical science. Not open to students with credit in 1205, 2414 or 2514. Concepts of force, energy, matter, atomic physics, electricity, light, presented as a part of a liberal education. (F, Sp, Su) [II-NL]

1205 Introductory Physics I for Physics Majors. Prerequisite: enrollment in Mathematics 1823 or permission of instructor. To be taken by physics, astronomy and engineering physics majors during the first semester of their freshman year. Kinematics, dynamics, work and energy, many-particle systems, rigid body rotation, simple harmonic motion. Laboratory is an integral part of the course. Laboratory (F) [II-LAB]

1215 Introductory Physics II for Physics Majors. Prerequisite: 1205 or permission of instructor. Electricity and magnetism: static fields and forces, circuits, electromagnetic induction. Thermodynamics: the First and Second Laws, temperature, heat, work and entropy. Laboratory is an integral part of the course. Laboratory (Sp)

1311 General Physics Lab I. Corequisite: 2414 or 2514. Experiments in basic laws of mechanics and thermodynamics. (F, Sp, Su) [II-LAB]

1321 General Physics Lab II. Corequisite: 2424 or 2524. Experiments in basic laws of electricity, magnetism, and optics. (F, Sp, Su) [II-LAB]

1453 Musical Acoustics. An introduction to the science of sound and its propagation with special emphasis on the production of sound by musical instruments and the voice, psychological aspects of sound perception, and room acoustics. Topics are explored through lectures, demonstrations, and discussions. No previous musical experience or proficiency is required. Not for major credit. (F) [II-NL]

2203 Introductory Physics III: Modern Physics. Prerequisite: 1215 or 2524 (or concurrent enrollment), or permission of instructor. An introduction to and overview of key concepts in contemporary physics, with emphasis on the contrast between classical and modern ways of thinking about the physical universe. Includes an introduction to selected major subject areas, which might include light and optics, relativity, atoms and molecules, the solid state, nuclei, elementary particles, fundamental interactions, cosmology and/or chaos. Students will also explore selected topics in current physics research. (F)

2302 Electronics Laboratory I. Prerequisite: 1215 or 2524 or permission of instructor. Introduction to analog and digital electronics. Experiments involve operation and use of basic solid state devices and integrated circuits. Emphasis on design and construction of circuits relating to the use of microprocessors as an interface between computer and experiment. (F)

2303 Electronics. Prerequisite: 1215 or 2524 (or concurrent enrollment), or permission of instructor. An introduction to the characteristics of semiconductor electronic components and their use in the design and operation of practical analog and digital electronic circuits. The emphasis will be on gaining a working knowledge of basic circuits and preparation for understanding and building electronic circuits encountered by experimental research physicists. (F)

2414 General Physics for Life Science Oriented Majors. Prerequisite: Mathematics 1523 or 1743. Not open to students with credit in 1205 or 2514. Kinematics and dynamics of particles and rigid bodies, gravitation, equilibrium, momentum, energy, static and flowing fluids, kinetic theory, heat and thermodynamics, vibrations, waves and sound. (F, Sp, Su) [II-NL]

2424 General Physics for Life Science Oriented Majors. Prerequisite: 2414. Not open to students with credit in 1215 or 2524. Electric charge, electric field, electric potential, energy, DC and AC currents, magnetic fields, electromagnetic induction, geometrical optics, wave nature of light, optical instruments, elementary quantum theory, models of the atom, the nucleus, radioactivity, nuclear reactions and nuclear energy. (F, Sp, Su)
2514 General Physics for Engineering and Science Majors. Prerequisite: Mathematics 1823. Not open to students with credit in 1205. Vectors, kinematics and dynamics of particles, work and energy systems of particles, rotational kinematics and dynamics, oscillations, gravitation, fluid mechanics, waves. (F, Sp, Su [II-NL])

2524 General Physics for Engineering and Science Majors. Prerequisite: 2514 and Mathematics 2423. Not open to students with credit in 1215. Temperature, heat, thermodynamics, electricity, magnetism, optics. (F, Sp, Su [II-NL])

2613 Introduction to Medical Physics. Prerequisite: 2414 and 2424, or 2514 and 2524. Introduce and review the principles of physics in radiological sciences. Applications in radiography, fluoroscopy, ultrasound, nuclear medicine, magnetic resonance imaging, and radiation therapy will be discussed. May be useful to students in the sciences, engineering, or programs that are affiliated with the practice of medicine or with its technology. (F)

3043 Physical Mechanics I. Prerequisite: 1205 or 2514, and Mathematics 3113 or 3413 (or concurrent enrollment); or permission of instructor. Differential equations based continuum mechanics: Newtonian particle mechanics, driven and damped oscillations, vibrations and waves, and their application to other linear systems, non-linear oscillations, introduction to Lagrange's equations. (Sp)

†G3053 Physical Mechanics II. Prerequisite: 3043 or permission of instructor. Lagrangian and Hamiltonian dynamics. Non-inertial reference frames. Rigid body motion. Central forces and collisions. Special relativity. (F)

†G3183 Electricity and Magnetism I. Prerequisite: 2203, Mathematics 3413 or concurrent enrollment; or permission of instructor. Electrostatics, dielectrics, continuity conditions, magnetic forces and fields, magnetic induction, magnetization, Maxwell's equations. (F)

†G3223 Modern Physics for Engineers. Prerequisite: Mathematics 3113 or equivalent. Relativity, atomic structure, nuclear theory, wave mechanics, statistical physics, solid state physics. (F)

3302 Advanced Lab I. Prerequisite: 2303 or permission of instructor. Junior-level experiments in physics. (F, Sp)

3312 Advanced Lab II. Prerequisite: 3302 or permission of instructor. Junior-level experiments in physics. (F, Sp)

†G3803 Introduction to Quantum Mechanics I. Prerequisite: 2203 or permission of instructor. Fundamental ideas of quantum physics. Postulates of quantum theory, wave functions, operators, the Schrödinger equation, one-dimensional systems. Mathematical tools of quantum mechanics. Theory of measurement. Stationary and nonstationary states. (Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student's major program. Covers materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. Deals with concepts not usually presented in regular coursework. (Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su [II-NL])

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G4153 Statistical Physics and Thermodynamics. Prerequisite: 3803. Statistical properties of physical systems. Entropy and temperature, the Boltzmann distribution, Fermi-Dirac and Bose-Einstein gases. Thermodynamic functions. Statistical interpretation of thermodynamics. (F)

†G4183 Electricity and Magnetism II. Prerequisite: 3183. Maxwell's equations, electromagnetic wave equations, propagation of electromagnetic waves, reflection and refraction, radiation. (F)

2413 Nuclear and Particle Physics (Slashed with 5213). Prerequisite: 3803. Basic nuclear structure, nuclear models, radioactivity, nuclear reactions. Particle interactions and families, quark model, weak decays of quarks and leptons. No student may earn credit for both 4213 and 5213. (F)

2423 Solid State Physics (Slashed with 5243). Prerequisite: 3803. Crystal structure, electrons in simple metals, electron band theory, semiconductors, superconductivity, photons. No student may earn credit for both 4243 and 5243. (Sp)

4300 Senior Research Project. 1 to 3 hours. Prerequisite: senior standing in major and permission of instructor. May be repeated once. or theoretical, to be arranged with individual faculty, leading to a senior thesis. Group seminars to discuss projects and other topics of current interest in physics and astronomy. Total of four hours required for general education capstone. (F, Sp) [V]


4813 Atomic and Molecular Physics (Slashed with 5813). Prerequisite: 4803. Hydrogen atom: fine structure and external field effects. Many-electron atoms. Interaction with radiation. Molecular bonding. Spectroscopy of diatomic molecules. No student may earn credit for both 4813 and 5813. (Sp)

4970 Seminar—Selected Topics in Physics. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of subject; maximum credit six hours. (Irreg.)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied, permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5013 Mathematical Methods in Physics. Prerequisite: graduate standing. Orthogonal transformations and tensor analysis; partial differential equations and special functions: spherical harmonics, Bessel functions, SHO and hydrogen atom wave functions; theory of complex variables; integral definition of special functions. (F)

G5153 Classical Mechanics. Prerequisite: 3053 or equivalent. Hamilton's principle, Lagrange's equations, mechanics of particles and rigid bodies, Hamiltonian equations, canonical transformations, Poisson brackets. (F)

G5163 Statistical Mechanics. Prerequisite: 4153 or equivalent. Ensembles and thermodynamics, fluctuations, monatomic crystals, ideal gases, phase equilibrium, chemical equilibrium in ideal gas mixtures, ideal gas in an electric field, Bose-Einstein and Fermi-Dirac statistics, blackbody radiation, electrons in metals. (Sp)

G5213 Nuclear and Particle Physics (Slashed with 4213). Prerequisite: 4803; graduate standing. Basic nuclear structure, nuclear models, radioactivity, nuclear reactions. Particle interactions and families, quark model, weak decays of quarks and leptons. No student may earn credit for both 4213 and 5213. (F)

G5243 Solid State Physics (Slashed with 4243). Prerequisite: 4803; graduate standing. Crystal structures, electrons in simple metals, electron band theory, semiconductors, superconductivity, photons. No student may earn credit for both 4243 and 5243. (Sp)

G5393 Quantum Mechanics I. Prerequisite: 4803 or equivalent. Topics in nonrelativistic quantum mechanics including the Heisenberg and Schroedinger pictures, Dirac formalism, angular momentum, bound states of spherically symmetric potentials, time independent perturbation theory; potential scattering. (Sp)

G5403 Quantum Mechanics II. Prerequisite: 5393. Time-dependent perturbation theory, electromagnetic interactions, spin and angular momentum coupling; symmetry and statistics, density matrix, multiparticle systems. (F)

G5573 Electrodynamics I. Prerequisite: 4183 or equivalent. Topics include special relativity; 3+1 and 4-dimensional Maxwell theory; charged particle and electromagnetic field Langrangians; conservation of energy, momentum and angular momentum; delta function sources and Green's function for Maxwell's theory. (F)

G5583 Electrodynamics II. Prerequisite: 5573. Topics include: applications of advanced and retarded Green's functions to time-dependent electric and magnetic dipoles, and acceleration point charges; synchrotron radiation; Bremsstrahlung; radiation damping and classical renormalization. (Sp)

G5813 Atomic and Molecular Physics (Slashed with 4813). Prerequisite: 4803; graduate standing. Hydrogen atom: fine structure and external field effects. Many-electron atoms, Interaction with radiation, Molecular bonding. Spectroscopy of diatomic molecules. No student may earn credit for both 4813 and 5813. (Sp)

G5910 Problems in Natural Science (Crosslisted with Botany, Microbiology, Zoology 5910). 1 to 2 hours. Prerequisite: admission to candidacy for degree of Master of Natural Science. (F, Sp, Su)

G5970 Seminar—Selected Topics in Modern Physics. 1 to 3 hours. Prerequisite: permission. May be repeated with change of subject matter; maximum credit for master's degree six hours, for doctor's degree twelve hours. (F, Sp, Su)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)
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Political Science (P SC)

G5990 Special Studies. Prerequisite: twelve hours of physics, permission. May be repeated with change of subject matter; maximum credit for a master’s degree four hours, for a doctor’s degree ten hours. (F, Sp, Su)

G6213 Advanced Particle Physics. Prerequisite: 5213, 5403 or equivalents. The theory and phenomenology of the "standard model" of particle physics which encompasses the electro-weak and strong interactions. Topics will include: symmetries, group and conservation laws, bound states, quarkonium; Feynman diagrams; QED; QCD; weak interactions; gauge theories. (Irreg.)

G6243 Advanced Solid State Physics. Prerequisite: 4243, 5403, or equivalents. The physics of metals, semiconductors and insulators. Free electron theory, crystal structure and phonons, electron band theory, semiclassical model, applications to electronic and optical properties of solids, effects of magnetic fields. (Irreg.)

G6283 Advanced Atomic/Molecular Physics. Prerequisite: 5403, 5813, or equivalents. Calculation and evaluation of electronic wave functions for atoms and molecules via Hartree-Fock and configuration interaction methods; the Born-Oppenheimer approximation and ro-vibrational wave functions; molecular quantum states and group theory; fine and hyperfine structure. (Irreg.)

G6333 General Relativity. Prerequisite: 5013, 5583. The mathematical and physical basis for the relativistic theory of gravitation; the principle of equivalence; tensor analysis; Einstein’s field equations; tests of general relativity; gravitational collapse; cosmology; toward a quantum theory of gravity. (Irreg.)

G6433 Quantum Field Theory. Prerequisite: 5403. Canonical quantization of scalar and spinor fields; perturbation theory and Feynman diagrams; renormalization; path integral formulation; renormalization group; gauge fields with selected applications to QED, electro-weak theory and QCD. (Irreg.)

G6810 Seminar on Atomic and Molecular Collision Dynamics. 1 to 3 hours. Prerequisite: permission. May be repeated with change of subject matter; maximum credit nine hours. A research seminar devoted to the study of specialized topics in atomic and molecular collisions. Topics selected will reflect the interests of instructor and students. (Irreg.)

G6821 Seminar on Chemical Physics. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. A research seminar devoted to the study of specialized topics in chemical physics. Topics selected will reflect the interests of instructor and students. (Irreg.)

G6831 Seminar on Applied Physics. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. A research seminar devoted to the study of specialized topics in applied physics. Topics selected will reflect the interests of instructor and students. (Irreg.)

G6841 Seminar on Nuclear and Particle Physics. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. A research seminar devoted to the study of specialized topics in nuclear and/or particle physics. Topics selected will reflect the interests of instructor and students. (Irreg.)

G6851 Seminar on Solid State Physics. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. A research seminar devoted to the study of specialized topics in solid state physics. Topics selected will reflect the interests of instructor and students. (Irreg.)

G6860 Advanced Topics in Mathematical Methods in Physics. 1 to 3 hours. Prerequisite: 5013 or permission. May be repeated with change of content; maximum credit nine hours. Topics covered will be selected by instructor and announced prior to the term in which it will be offered. The course is intended to offer material currently used in theoretical physics. (Irreg.)

G6980 Research for Doctor’s Dissertation. (F, Sp, Su)

Political Science (P SC)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

Courses offered through the Advanced Programs format have a two-hour credit award with a one-hour additional independent study option, and the course numbers are listed on the transcript as ending with 2 and 1. To gain the full equivalent of the content as the comparable course listed on campus, both the two-hour and one-hour enrollment must be completed. 1113 American Federal Government. Not accepted for major credit. A study of the structure, organization and powers of the executive, legislative and judicial branches including relationships between state and national governments. Emphasis upon political processes and popular government; elections, political parties, pressure groups, voting behavior. (F, Sp, Su) (III-PSC)

2001 Political Science, Fields and Careers. An introduction to the academic sub-fields of the discipline, and provides career guidance and information relevant to post-B.A. employment, graduate schools, law schools, and government service. (F, Sp)

2013 Introduction to Political Analysis. Prerequisite: 1113. Scientific method and the variety of approaches to a science of politics; problems of research design; methods and techniques of systematic political inquiry. (F)

2103 Politics in America. Prerequisite: 1113. Focuses on the practice of politics in the United States and the forces and ideas that shape political conflict and determines who wins. The three major national institutions of American government are considered: Congress, the presidency, and the judiciary. Examines their constitutional bases of power, their evolving relationships, and their roles in contemporary policymaking. Also considers how ideas and power relationships influence the shape of political conflict. Contemporary political issues will be integrated into course content. (F)

2113 Introduction to American Political Process and Behavior. Prerequisite: 1113. Focuses on political processes and behavior. Elections, parties, interest groups, PAC’s, social movements, and political culture will be given consideration. The primary focus will be the linkages between citizens, the government and public policies. Political representation and participation will be considered thoroughly. (Sp)

2173 Administration and Society. Prerequisite: 1113. Studies relation of public administration to legislators, executives, and courts; and challenges to public management, such as diversity, equality, and justice. Topics include government budgeting, personnel, leadership, and organizing and delivering programs and services. Focuses on how to maintain ethics and accountability and increase efficiency and effectiveness in public programs. (F, Sp)

2223 Making Public Policy. Prerequisite: 1113. Explores government actions to address social problems such as crime, poverty, health care, education, welfare reform, and the environment. Focuses on how to craft policy responses to conflict situations; resolve competing political demands for more services yet lower taxes; and achieve important societal goals of efficiency, equity, fairness, and freedom. (F)

2503 Relations Among Nations. Prerequisite: 1113. Introduces students to sources of continuity and change in world politics. Emphasis is given to the struggle for power and search for peace among state and non-state actors. Additional topics include the relevance of international law, foreign policy decision-making, balance of power, collective security, and moral choices in international politics. (F)

2603 Governments Around the World (Crosslisted with International and Area Studies 2603). Prerequisite: 1113. Gateway course in political science and international and area studies. Provides an introduction to the varieties of political and governmental systems around the world. Students will develop skills in comparative analysis to understand why countries have distinct types of government. (F) (IVWC)

2703 Justice, Liberty and the Good Society. Prerequisite: 1113. An introduction to the literature about the best form of government, how a just a free society should be designed, and what difficulties stand in the way of our pursuit of the good society. Topics may include: the classic idea of a republic, theories shaping American democracy, the theory of equality and liberty, and contemporary ideas for the critical analysis and improvement of democracy. (F, Sp)

Unless otherwise noted, the prerequisite for courses in political science numbered 3000–3999 is five hours of political science, or 1113 and three hours of another social science, or junior standing and permission of instructor.

3020 Problems in American Government and Politics. 1 to 3 hours. Prerequisite: 1113 or permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. Will not assume prior knowledge on the part of the students in reference to the topics under examination. The primary focus will be the linkages between citizens, the government and public policies. Political representation and participation will be considered thoroughly. (F, Sp)

3023 Law and Courts. Prerequisite: 1113 or permission of the instructor. This is an introduction to the judicial process, origin and sources of law, and the relationship between courts and other sectors of the American political system. It will focus on the criminal justice system, civil justice system, constitutional law, judicial selection, judicial policymaking, and how interest groups use the courts. (F)

3033 Religion and Politics in America. Prerequisite: 1113. Examines the diverse religious traditions in America and explores their political manifestations. Assesses the religious impact on voting, lobbying, political
mobilization and political culture. Particular attention will be paid to the strategic environment in which religious political actors must operate. [IV-WWC]

3043 Gender, Power and Leadership in Politics and Administration (Crosslisted with Women’s Studies 3043). Prerequisite: 1113. Focuses on the relationship between gender, power, leadership, and government in politics and public administration. Causes of under-representation of women in elected office and bureaucracy are explored. Historical, social, psychological, and organizational barriers are considered. (Irreg.)

3090 Special Topics. Prerequisite: 1113 or permission of instructor. May be repeated with change of content; maximum credit nine hours. Topics considered will deal with issues whose subject matter spans two or more subfields of the undergraduate curriculum in political science and/or public affairs and public administration. (Irreg.)

3123 Social Statistics (Crosslisted with Sociology 3123). Prerequisite: Sociology 1113 or permission of instructor. Descriptive and inferential statistics as they are used in sociology to analyze survey and macro-level data. Problems of research design and interpretation of analysis in sociological theory are major topics. A grade of C or higher in this course is a prerequisite for Sociology capstone courses. (F, Sp, Su)

3133 Politics and Public Administration. Prerequisite: 1113 and sophomore standing. Examines the concept of the political role of the bureaucracy and the impact of other government institutions on bureaucratic structure, functions and behavior. The role of the bureaucracy in public policy making and the influence of politics on policy implementation is analyzed. (F) [III-SS]

3143 U.S. Congress. An introduction to the legislative process, with emphasis upon the United States Congress: the legislative process, committee systems; legislative leadership; the legislator and constituents; lobbyist and interest groups; legislative-executive relations. (Sp)

3163 The American Presidency. Prerequisite: 1113. Examination of the constitutional, electoral, administrative, and political aspects of the contemporary American presidency; ending with an assessment of its capabilities in the context of its demands. (F)

3170 Problems in Public Administration. 1 to 3 hours. Prerequisite: five hours of political science or three hours of another social science, or junior standing and permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. Special topics and/or problems in the field of public administration not covered in the regular curriculum or by supervised individual study. The course will involve readings appropriate to the subject matter and requires completion of a substantial paper. Additional requirements will be covered by the instructor in the syllabus. (Irreg.)

3173 Theory of Public Organizations. Prerequisite: 1113 and 2173. Analyzes public organizations to distinguish them from private organizations. Looks at the intellectual heritage of Adam Smith, Marx, Weber and Freud and the political theory of American public organizations from Wilson, through the Principles writers, to the administrative behavior schools and modern open systems. (F)

3183 Politics of Government Budgeting. Prerequisite: 2173. Provides an introduction to budgeting and the budgetary process in American government. Budgeting decision-making about government revenues and expenditures. (Sp)

3203 Sexuality, Gender, and the Law. Prerequisite: PSC 1113 or permission of the instructor. The course will examine a number of the most politically significant legal debates regarding gender and sexuality. Though the issues covered will vary by semester, they will include many of the following: discrimination on the basis of gender and sexual orientation, reproductive rights, the regulation of pornography, same-sex marriage, sexual harassment in the workplace, and the right to sexual privacy. (Irreg.)

3213 Law, Politics, and Society. Prerequisite: 1113 or permission of instructor. Examines how courts and other political actors use law to solve problems and how judicial decisions incorporate legal and political considerations. It explores how law shapes or alters the political community, the extent that law changes political processes in the United States, with special reference to the role and organization of political parties and their relationship to voter behavior and the popular control of government. (Irreg.)

3423 Public Opinion. Relies on three basic themes as a framework for the study of public opinion: coalitions, elites and masses. More specific subjects studied include political socialization, the parties and the media. Students may not take both 3423 and 4013 for credit. (Irreg.)

3433 Voters and Campaigns. Prerequisite: 1113. Covers some of the literature on voting behavior and political campaigns: political socialization; political participation; election studies; influence on voting such as party, candidate, issues, and group affiliations; the legal framework and impact of reform; election outcomes and their policy import. Coverage of the campaign process includes party and interest group activity, campaign financing, strategy, the media, and campaign reform. (Irreg.)

3443 Mass Media and American Politics. Prerequisite: 1113. Role of mass media in American politics including origin and development of relationship between press and politics, how the press covers politics, effects of mass media on public opinion, political elites, and institutions. [Irreg.]

3453 Southern Politics. Prerequisite: 1113 and senior standing, or permission of instructor. Focuses on the history and evolution of southern politics and the role of race, religion, and political culture as these factors impact and give the region its distinctive political features. These factors, plus the realignment of the political parties in these states, contribute to southern political strength in Congress, which in turn impacts national politics as a whole. The course will examine all of these factors both in terms of institutional structures and behavioral values. [Sp] [III-SS]

3463 American Political Development. Prerequisite: 1113 or permission of instructor. Analyzes the institutional development of American politics. The premise is that institutions are created to solve conflicts at specific historical junctures. Once in place, these institutions create opportunities and constraints for future generations. Focus on explaining large-scale political change in the United States from the founding to the present. (Irreg.) [IVWWC]

3503 Russian Foreign Policy. Prerequisite: 1113 or permission of instructor. Traces the history of Russia’s foreign relations from the Imperial period to the present, with an emphasis on the origins, conduct and conclusion of the Cold War. Considers Russia’s contemporary geopolitical status, the emergence of new military doctrine, relations among the newly independent countries of the former Soviet Union, and Russian integration into the world economic system. (Sp)

3513 Causes of War. Prerequisite: 1113 or permission of instructor. This course will examine causes and consequences of war, looking at the changing nature of war, international relations theories about causes of war, and case studies, primarily from the 20th century. (Irreg.)

3550 Topics in International Relations. 1 to 3 hours. Prerequisite: 1113 or permission of instructor. May be repeated with change of content; maximum credit nine hours. Systematically explores contemporary problem areas in international relations. Will not assume prior knowledge on the part of the students in reference to the topics under examination. Meets in a seminar format where emphasis will be placed on classroom presentations and extensive research papers. (Irreg.)

3553 International Political Economy. Prerequisite: 1113. Focus on patterns, processes, and problems of international trade, monetary, technological, and investment relations. Deals with the roles played by key international
3723 Foundations of American Politics. An examination of the principal issues and ideas of the American colonial, revolutionary and founding periods and their influence on, and relevance to contemporary American politics. 

3890 Political Science Internship. 1 to 3 hours. Prerequisite: five hours of political science, or 1113 and five hours of another social science, or junior standing and permission of instructor. Special permission required for graduate students. May be repeated; maximum credit six hours. Course content varies with instructor. Will focus on specialized subject matter not covered in existing course offerings. (Intersession)

3910 Government Internship. 2 to 3 hours. Prerequisite: good academic standing with forty-five semester hours completed, including nine hours of political science; permission of instructor. May be repeated; maximum credit six hours. Interns observe and participate in the functions, processes and actions of governmental institutions at the federal, state and local level. Grade of "S/U" based on completion of directed readings, an academic research paper, performance reports. (F, Sp, Su, IV)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (F)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; junior standing; permission of instructor and department. May be repeated; maximum credit six hours. Through a written contract, independent study may be arranged for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

Unless otherwise noted, the prerequisite for courses in political science numbered 4000-4999 is eight hours of political science, or 1113 and six upper-division hours of another social science, or junior standing and permission of instructor.

4013 Public Opinion and Survey Research. Prerequisite: 1113 and junior standing. Introduces students to the theory and practice of public opinion through a combination of traditional lecture format with a lab. The division of work is approximately 60% public opinion and 40% survey research, but both components benefit from the incorporation of the other. Students cannot take both PSC 3423 and 4013 for credit. (F)

4023 Political Psychology and Survey Experiments. Prerequisite: 1113 and junior standing. Introduction to theories of political psychology including information processing, persuasion, opinion formation and the role of emotions in political evaluation. The course also introduces the methodology of survey experiments. The substance and method will be interwoven. (Sp)

4033 Individualism, Community, & Democracy: A Service-Learning Course. Prerequisite: 1113 or permission of instructor. The course uses student service to the community as a core component of the course. It focuses on themes of civil society, obligations within society, the public sphere, American political culture, and social capital. (Sp)

4043 Public Policy Implementation (slashed with 5043). Prerequisite: 2223. This course examines how public laws are implemented. It investigates actors, institutions and processes influential in decisions and actions regarding public program delivery. No student may earn credit for both 4043 and 5043. (Irreg.)

4093 Capstone Seminar in Political Science. Prerequisite: senior standing, completion of four of the following courses: 2103, 2173, 2223, 2503, 2603, 2703; and permission of department. Capstone seminar for major in political science. Explores topics in political science for students with substantial background in the discipline and includes a significant writing component. Specific subtitles will vary. (F, Sp)

4113 American Foreign Policy from World War II to the Present. Prerequisite: 1113 or permission of instructor. An analysis of American foreign policy in the twentieth century. Covers the emergence of the United States as a great power, abandonment of isolation, World War II and the development of internationalism, the Cold War and policies of containment, the American involvement in the Far East, Middle East and Latin America. (Irreg.) (F, IV)

4143 Policy/Program Evaluation. Prerequisite: 2223. Introduces the planning and implementation of a variety of evaluation types and methods. Considers the utilization of findings in a political environment. (Irreg.)
4193 Functions of Public Management. Prerequisite: 2173. Open to undergraduate students only. Focuses on the internal administrative processes of public agencies, concentrating on the specific management functions of planning, directing and controlling as they relate to the development and implementation of public policy programs. (Irreg.)

4203 Capstone Seminar in Public Affairs and Administration. Prerequisite: senior standing and permission of instructor. May be repeated once with change of content. The focus and subtitle will vary. Develops the ability to analyze and interpret the subject matter; contains a substantial writing component. (F, Sp) [IV]

4213 Regulatory Policy. Prerequisite: junior standing or permission of instructor. Examines the topic of administration and the agencies that are responsible for these government activities. Emphasizes the constitutional, legal, administrative, and political issues raised by the growth and nature of regulatory activities. (F)

4220 Problems in Public Policy. 1 to 3 hours. Prerequisite: 1113 or permission of instructor. May be repeated with change of content; maximum credit nine hours. Research and investigation on selected problems in the field of public policy. (Irreg.)

4223 Public Policy Analysis. Prerequisite: 2223. Introduces students to public policy theories and analytical methods. Public policy is placed within the context of different disciplines and practical applications. (Irreg.)

4233 Science, Technology and Public Policy. Prerequisite: 1113 or permission of instructor. An examination of the impact of science and technology on the American political system; the responses of the national government to the technological society. An effort is made to project the consequences of new technologies and define alternative public policy responses. (Sp)

G4273 Constitutional Interpretation. Prerequisite: 1113 or permission of instructor. Asks basic questions about the nation's fundamental law: What is the Constitution? Who is authorized to interpret it? How might one authoritatively interpret it? Why should anyone try to interpret it? (F) (IV-WC)

G4283 Civil Rights and Civil Liberties. Prerequisite: 1113 or permission of instructor. Investigates the character, function, and enforcement of civil rights and civil liberties in the American constitutional system. (Sp) (IV-WC)

4323 Political Communication (Crosslisted with Communication 4323). Prerequisite: Communication 1113 and 2713, or junior standing with permission of instructor. Considers the role of communication in political settings. Major topics include political persuasion, public speaking in political campaigns, political debating, political advertising, bias in news coverage of campaigns. (F, Sp)

G4420 Topics in Electoral Behavior. 1 to 3 hours. May be repeated with change of topic; maximum credit nine hours. Topics include voting behavior of the American mass public; cross-cultural research; the methodology of aggregate and survey analysis; computer applications; political attitudes, political socialization and attitude change; sociological, psychological, and cultural dimensions of electoral behavior; resultant behavior in the form of vote direction, registration, turnout, and participation; and theoretical consideration and implications for public policy. (Irreg.)

G4523 International Organizations and Regimes. Prerequisite: 1113 or permission of instructor. The course focuses on the organization of international politics via formal multilateral arrangements (international organizations) and informal multilateral agreements (international regimes). (F)

G4543 The United Nations. The history, purposes, and politics of the United Nations organization; its strengths and weaknesses in regulating the relations of states; current problems of the United Nations and the Western European institutions. (Irreg.)

4553 The International Political System. Prerequisite: 1113 or permission of instruction. Sources of continuity and change in the contemporary system of nation states, with an emphasis on theories of war and diplomacy; balance of power, collective security, conflicting values, integration, and political economy. (Irreg.) (IV-WC)

4603 Comparative Public Policy. Prerequisite: 2603. Introduces students to the study of public policy in advanced industrial societies; emphasis is placed on understanding differences in policy outcomes in countries with similar economic and political systems; introduces students to the thematic study of different areas of public policy. (Irreg.)

4613 Conflict, Violence, Warfare: Current Analysis and Future Trends. Introduces the student to the comparative analysis of different forms of conflict, violence and warfare in the national, regional and international arenas. Provides the means to assess present and future trends in conflict, violence and warfare. (Irreg.)

4623 Globalization and Industrial Democracy. Prerequisite: senior standing. Examines the impact of globalization on political economies of the advanced industrial countries, including Germany, Japan, and the United States. Compares industrial policy for economic development and corporate governance in these countries. Reviews the globalization of finance and trade. Evaluates the convergence of political and economic activities under globalization. (Irreg.)

4643 Politics of the European Union. Prerequisite: 2503 or 2603, or permission of instructor. Examines the political processes and the institutions of the European Union. Particular attention is paid to the historical process of political integration in Europe and the economic and political force that drive integration. (Sp)

4653 Politics, Literature, and Film. Prerequisite: junior standing or permission of instructor. Examines important contemporary issues as they are portrayed in literature and film. The topics examined may include the role of women in politics, revolution, terrorism, poverty, and the like. Literature and films will be drawn from many different world regions. (Irreg.) (IV-WC)

4723 Philosophical Issues in American Politics. Prerequisite: 3723 or permission of instructor. May be repeated with change of content; maximum credit six hours. An in-depth examination of specific philosophical issues and ideas of American politics. Content will vary but may include pluralism, liberalism and conservatism, representation, etc., as well as a focus on the work of specific American political theorists such as Robert Dahl or John Rawls. (Sp) (IV-WC)

G4730 Topics in Political Theory. 1 to 3 hours. Prerequisite: sophomore standing. May be repeated with change of content; maximum credit nine hours. Devoted to specific problems and issues in political theory. Content will vary from course to course. Each course will examine a principal problem or issue in some depth. Descriptions of specific courses may be obtained from the department prior to pre-enrollment. (Irreg.)

G4763 Existential Political Thought. Prerequisite: 1113 or permission of instructor. An examination of the relationship between existentialist philosophy and western political thought, with particular emphasis upon the influence of Martin Heidegger. Specific topics examined are: development of new outlooks upon traditional conceptions of politics in the West, personal responsibility in a political setting, reexamination of the concept of freedom and rights, and existentialism as a basis of political reform. (Irreg.) (IV-WC)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; senior standing; permission of instructor and department. May be repeated; maximum credit six hours. Through a written contract, independent study may be arranged for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

Unless otherwise noted, the prerequisite for courses in political science numbered 5000-5999 is twelve hours of political science, or senior standing and permission of instructor.

G5003 Introduction to Public Administration. Prerequisite: graduate standing. An introductory graduate seminar surveying the field of public administration and its role and position in contemporary government, providing a basis from which to undertake advanced studies of theoretical and substantive nature. Attention will be given to key themes in past and present of mainstream public administration, such as the foundation, personnel, organization, and policies of government. (F, Sp, Su)

G5013 History and Theory of Urban Planning (Crosslisted with Regional and City Planning, Sociology 5013). Open to seniors in social science departments, civil engineering and architecture, and to graduate students in regional and city planning. An introductory course on the history and theory of contemporary planning, focusing on the physical, social, institutional and economic structure and dynamics of human settlements, and on the role and responsibilities of the professional planner. (F)

G5023 Problems in American Government. Content varies with instructor; may be repeated for credit with change of content. The focus is on the national government, including the political process and policies that relate to it. (Irreg.)

G5043 Public Policy Implementation (Slashed with 4043). Prerequisite: graduate standing. This course examines how public laws are implemented. It investigates actors, institutions and processes influential in decisions and actions regarding public program delivery. No student may earn credit for both 4043 and 5043. (Irreg.)

G5103 Organizations: Design, Structure and Process. Prerequisite: full graduate standing or permission of instructor. Analyzes large, complex organizations, particularly governmental units and other public sector agencies. Attention will be given to the principal theoretical models for their design and structure. Also seeks to understand system-subsystem relationships in the processes of decision making, communication, influence, leadership and technology. (F)
G5113 Federalism and Intergovernmental Relations. Covers the origins, development, and operational aspects of federalism in the U.S. Intergovernmental relations as the dynamics of federalism are studied as they impact on decision-making, administrative and fiscal patterns. Decentralization and reorganization are analyzed as they affect the administration of national programs. (Sp)

G5123 The Making of American Foreign Policy. A study of American policy formulation with its problems and limitations. Current American foreign policies and alternate courses of action are examined critically. (Irreg.)

G5133 Strategic Planning and Performance Measurement. Prerequisite: graduate standing or permission of instructor. Introduces students to strategic planning, performance measurement, and benchmarking in the public sector. Provides an overview of strategic management and illustrates the development, implementation and reorganization of public policy and operational strategy. Emphasis on the changes in an organization's environment. (Irreg.)

G5143 Program Evaluation. Methodology of planning and evaluation of government programs. Emphasizes research design, especially experimental and quasi-experimental design, and alternative methods for handling threats to validity of research results. Includes measurement problems, control of variables, and the politics of program planning and evaluation. (Sp)

G5153 Public Sector Labor Relations. Prerequisite: none. Covers the techniques of contract negotiations in the public sector, the elements of contract administration, impasse resolution procedures and the variety and complexity of laws under which public sector labor relations occur. (Irreg.)

G5163 Legislative Process and Behavior. Prerequisite: graduate standing or permission of instructor. Examination of character of legislative process in United States Congress, American state legislatures and foreign legislative bodies; in-depth exploration of empirical hypotheses and related data concerning legislative process and behavior; major focus on legislature (especially Congress) as institution and on such topics as: committees; norms; socialization; leadership; staff; voting cues. (Irreg.)

G5170 Problems in Public Administration. 2 to 3 hours. May be repeated; maximum credit six hours. Research and investigation on selected problems of public administration. Some alternative subjects; administrative theory and organizational theory; bureaucracy; organization and management; government corporations; administrative policy making; responsibility and accountability. (Irreg.)

G5173 Bureaucracy and Politics. Prerequisite: graduate standing. Examines the concept of the political role of the bureaucracy and the impact of other government institutions on bureaucratic structure, functions and behavior. The role of the bureaucracy in public policy making and the influence of politics on policy implementation is analyzed. (Sp)

G5183 Public Budgeting and Finance. Prerequisite: graduate standing or permission of instructor. Examines the techniques and politics of raising and spending public funds. Discusses topics such as: deficit politics, legislative and executive powers, and the budgetary role of the courts. Assesses the impacts of taxing and spending policies. Explores issues relevant to national, state, and local governments. (Sp)

G5193 Comparative Administration. Will compare analytically the political, legal, economic and cultural influences. Similarities and contrasts in the bureaucratic functions and structures will be examined and attention given to organization around the chief executive, both centrally and in departments and ministries. (Irreg.)

G5203 Urban Land Use Controls (Crosslisted with Regional and City Planning, Sociology 5203). Open to seniors in social sciences, architecture and civil engineering, and to graduate students in regional and city planning. Provides a study of the historical development of property systems; zoning law, ordinance preparation, and administrative procedures; of subdivision regulations and other codes used in the regulation and control of land use. (Sp)

G5213 Administrative Law. With appellate court decisions and other analytical materials, the relationships between regulatory agencies and the public are developed; the consideration of such subjects as the delegation of powers, the elements of fair administrative procedures, and the judicial control of administrative determinations. (F)

G5223 Public Policy Analysis. An introduction to public policy analysis and policy making with emphasis on the examination of selected policy issues. (F)

G5233 Health Policy. Prerequisite: Graduate standing. This course is designed to provide students with a clear understanding of the nature and dynamics of health policy making and administration in the United States. (Irreg.)

G5243 Managing Public Programs. Introduces MPA students to the general principles of management as they are applied in the public sector. Topics include: systems theory, systems design (PERT), organization design, techniques of supervision, public sector labor relations, public sector personnel practices, agency structure with political actors in the environment. (Irreg.)

G5253 Human Resource Administration. An analysis of the structure and role of manpower in all levels of U.S. government, focusing on the development of the public service, manpower planning, unionization of public employees and recent trends in public personnel relations. (Sp)

G5263 Congress in the Political System. Prerequisite: graduate standing or permission of instructor. Empirically based course considering United States Congress and its role in American political system; examination of relationships between Congress and other institutions and actors. Possible topics include: Congress and the Presidency, interest groups, and lobbyists; Congress and Supreme Court; Congress and foreign policy; Congress and executive bureaus. (F)

G5273 The Judiciary. The U.S. Supreme Court, through its use of the Constitution as a standard, has become a significant institution in the making of national policy. Survey and analysis of that policy-making function, and how it has become a significant part of the entire American political process. Primary attention is paid to the analysis of decisions made by the Court, although this entails considerable attention to the institutional processes which result in such decisions. The following areas of concern are examined: the judicial process, economic policy, equality, criminal justice, presidential power, personal rights and the frontiers of judicial policy making. Additional readings in substantive judicial policy areas will be assigned. A research paper will be required. (Sp)

G5283 Problems in Law and the Constitution. Course content will vary. Intensive analysis of specific problems in legal or constitutional theory. Topics could include slavery and the constitution, capitalism and constitutional order, criminal law and morality, and jurisprudence. (Irreg.)

G5293 Administration, Ethics and American Government. Prerequisite: graduate standing. An exploration of the role of ethics in American government, especially in public administration. Topics to be studied include codes of professional ethics for administrators, ethics and constitutionalism, law and ethics, and the ethical implications of differing approaches to administrative work and to democracy. (Irreg.)

G5303 Research, Writing and Analysis for Public Administration. Prerequisite: graduate standing. An online, self-paced course introducing public administration graduate students to the practice of applied research, analysis and writing for the public sector. Topics will include administrative research, writing, the use and presentation of data and research, analytic skills in policy and administration, and ethical issues related to writing and analysis. (Irreg.)

G5313 Urban Management. Concepts, processes and techniques of managing urban political systems to include problems of leadership, decision making, conflict resolution, group behavior, developmental methods and strategies. (Irreg.)

G5323 Problems in Public Policy. May be repeated with change of content; maximum credit six hours. Content varies with professor. Focus on topics related to public policy issues at all levels of government, including the design, implementation, and evaluation of specific policy initiatives. (Irreg.)

G5333 Environmental Policy and Administration. Prerequisite: graduate standing. United States environmental policy, environmental movements, policy process, cost-benefit analysis, risk analysis and management, clean air policy, hazardous waste policy, other topical policy areas, global environmental issues. (Irreg.)

G5343 Public Policy and Inequality. Prerequisite: graduate standing or permission of instructor. Explores alternative definitions of equality and their implications in terms of public policy. Specific topics include the role of issue definition and agenda-setting in policy formation, the causes and politics of inequality, the difficulties in measuring inequality, and institutional dynamics that exacerbate or ameliorate inequality. (F)

G5353 State and Local Public Finance and Budgeting Systems (Crosslisted with Regional and City Planning 5353). Prerequisite: graduate standing or permission. An overview of the process and methods for local capital improvement programs and capital budget preparation, and an examination of the relationships between local development policies and fiscal decision making, including revenue potential. (CE)

G5363 Public Financial Management. Prerequisite: graduate standing or permission of instructor. Introduces students to important concepts, procedures, and skills associated with managing public monies. Major topics include government accounting, debt management, forecasting, cash management, and capital budgeting. (Irreg.)

G5373 Decision Analysis and Risk Management. Prerequisite: graduate standing. Individual-level decision making, decision analysis, values integration, heuristics and biases in judgment, group decisions, game theory, negotiations, societal risk management, risk assessment, perception and communication, applications to health safety, and environmental risks. (Irreg.)

G5383 Survey of Political Communication (Crosslisted with Communication 5383). Prerequisite: graduate standing. Surveys communication in the political
system. Discusses theory and research on interpersonal, public and mass communication in politics, particularly political campaigns. (F)

**G5393 Regulatory Policy.** Prerequisite: graduate standing or permission of instructor. Examines the reasons for the growth of administration regulation, regulatory agencies and processes, the nature of their formal, legal and informal powers, organization and procedures, and of their relationships with legislatures, chief executives, courts, and interest groups, including consumer interests. (Irreg.)

**G5400 Problems in Political Behavior.** 2 to 3 hours. Prerequisite: graduate standing, qualified senior by permission of instructor. May be repeated; maximum credit six hours. Content varies, representative topics would include interdisciplinary contributions to the study of political behavior, political socialization, decision making, voting behavior, belief systems, political violence, personality and politics and political culture. (Irreg.)

**G5403 Mediating Institutions: Parties, Interest Groups and Mass Media.** Prerequisite: graduate standing. Surveys literature on parties, interest groups and mass media as institutions linking citizens and governments. (Irreg.)

**G5413 Rational Choice and Politics.** Prerequisite: graduate standing or permission of instructor. Rational choice and politics—the theory, applications, and critiques. Builds on the assumption that humans are narrowly self-interested and proceeds to examine whether this assumption can illuminate and explain various political outcomes, both in the abstract and in the particular context of American political institutions. (Sp)

**G5423 Mass Politics: Public Opinion, Voting Realignment.** A survey of the literature on public opinion, voting behavior and realignment (or electoral change). Additional topics may include political socialization, participation and elite-mass interaction. (Irreg.)

**G5453 The Presidency.** Will survey recent literature on the institution of the American presidency and examine behavior of recent presidents. A research paper is required. (Irreg.)

**G5513 International Relations Theory.** Overview and appraisal of the state of the field of international relations. Primary emphasis will be placed on scope and method issues and on a review of theoretical attempts to explain general and specific aspects of international relations. (Irreg.)

**G5523 Morality and Foreign Policy.** Review of general debate regarding morality and foreign policy. Identification and analysis of moral issues regarding various foreign policy areas: use of force, nuclear deterrence and war, nonviolence, revolution, rich nation—poor nation issues, global interdependence issues. (Irreg.)

**G5533 The United Nations and U.S. Foreign Policy.** Prerequisite: graduate standing or permission of instructor. Examines the role of the United Nations in the execution of American foreign policy. An analysis of the viability of the United Nations as an international actor in a world infinitely more complex than the world system of 1945 provides the framework for the course. (F)

**G5543 International Organizations and Regimes.** Prerequisite: graduate standing. The course focuses on the organization of international politics via formal multilateral arrangements (international organizations) and informal multilateral agreements (international regimes) from a theoretical perspective. (F)

**G5550 Problems in International Relations.** 2 to 3 hours. May be repeated; maximum credit six hours. Analysis of current international conflicts and problems with study of possible solutions. May include study of the role and current problems of the United Nations. (Irreg.)

**G5553 International Security.** Prerequisite: Graduate standing. This course examines major theoretical approaches to the study of international security, including traditional approaches, the role of weapons, and new dimensions in internal security. (F)

**G5563 International Political Economy.** Prerequisite: graduate standing or permission of instructor. The organization of the international economic system and the opportunities and constraints faced by national governments in managing economic relations with other countries. Also examines the role of international agencies in managing economic crises and the globalization of the world economy. (Irreg.)

**G5573 Political Economy of Emerging Nations.** Prerequisite: graduate standing or permission of instructor. Examines political, economic, and social development in emerging nations. The course investigates first how colonialism affected Asia, Latin America, and Africa, and then analyzes development under the post-independence government. (Irreg.)

**G5600 Problems in Comparative Government.** 2 to 3 hours. May be repeated; maximum credit six hours. Content varies, but involves systematic comparative treatment of such central themes as the transitional society, change and revolution, modernization, political groups, constitutionalism, and bureaucracy. (Sp)

**G5603 Russian Politics in Comparative Perspective.** Prerequisite: Graduate standing or permission of instructor. Designed to demonstrate how comparativists who focus on Russia have engaged in seminal works in the subfield of comparative politics. (Irreg.)

**G5613 Political Economy of Industrial Democracies.** Prerequisite: graduate standing. Examines the relationships of political and economic factors in influencing both political and economic outcomes. A key element will involve understanding of microeconomic theory to obtain a better understanding of decision-making processes. Topics will include theory of collective action, comparative economic performance, political business cycles and theories of economic voting. (Irreg.)

**G5623 International Terrorism.** Will study the phenomenon of international terrorism. After analyzing different types of incidents the students will explore patterns of terrorism and the tactical and strategic responses to the threat along with policy implications on all levels. (Irreg.)

**G5633 Comparative Public Policy Analysis.** Analyzes the content of public policies cross-nationally, comparing the United States and several Western European democracies. Particular attention is given to social and economic policies, i.e., welfare state issues. (Irreg.)

**G5643 Politics in Western Europe.** Analyzes western European politics in a comparative perspective. Attention will be given to both processes and structures of governments in western European countries with particular emphasis on interest articulation and policy outcomes. (Irreg.)

**G5653 Low Intensity Conflict: Nature, Processes, Policies.** Prerequisite: graduate standing or permission of instructor. Introduces the student to the nature and dynamics of low intensity conflict with an emphasis on the processes of revolutionary warfare and analyzes major strategies associated with low intensity conflict; evaluates alternative policies associated with engaging in or responding to low intensity conflict. (Irreg.)

**G5673 Comparative Political Economy.** Prerequisite: graduate standing or permission of instructor. Examines the organization of economic institutions in different national settings, asking in particular how political systems help shape the economic institutions and outcomes. Specific issues include the organization of economic actors and their influence on economic policy, the impact of technology, and globalization. (Irreg.)

**G5683 Politics in Latin America.** Prerequisite: graduate standing or permission of instructor. Covers recent approaches to understanding politics in Latin America, with an emphasis on questions of transitions to democracy and regime stability, the nature of democratic rule, and the role of political institutions, the economy, and the military. (F)

**G5693 Intelligence: Process, Policy, and Management.** Prerequisite: graduate standing or permission of instructor. Explores issues associated with the role of intelligence in a democratic society by focusing on the U.S. intelligence community. Areas of inquiry include: the role of intelligence in national security, the major elements of intelligence, the major organizations within the intelligence community, future threats, oversight, and policy issues. (Irreg.)

**G5713 Classical Political Theory.** Prerequisite: 3701 or other undergraduate work introducing classical political thought. Open to qualified undergraduate students with permission of instructor. Devoted to study of the political thought developed in classical antiquity, at which time the quest for a systematic and rational understanding of political life emerged and permanently altered the way we think about politics. Emphasis will be given to the works of Plato and Aristotle. (Irreg.)

**G5723 Modern Political Theory.** Prerequisite: 3713 or other undergraduate work introducing modern political thought. Open to qualified undergraduate students with permission of instructor. Devoted to major works in modern political theory, from Machiavelli through Hegel, Marx and Nietzsche in the nineteenth century. Emphasis will be given to those thinkers whose ideas contribute to shaping the major forms of society and government found in the modern state. (Irreg.)

**G5733 Contemporary Political Theory.** Prerequisite: open to qualified undergraduates with permission of instructor. Will study selected issues in contemporary political theory. Specific topics will include the modern theory of “social science,” problems of modern democratic theory, contemporary Marxism, the crisis of the idea of progress, economics and politics, historicism, contemporary analysis of natural law and natural right and others. (Irreg.)

**G5773 Political Theory and Representation.** Prerequisite: permission of instructor for undergraduates. Focus is upon theories and problems in representation. Readings will include The Federalist Papers, Democracy in America, and contemporary works in democratic theory. (Irreg.)

**G5910 Government Internship.** 2 to 8 hours. Prerequisite: fifteen hours of political science or twenty-four hours of social science. May be repeated; maximum credit eight hours. (f, Sp, Su)
G5913 Introduction to Analysis of Political and Administrative Data. Presents an introduction to the foundations and use of quantitative methods in political science/public administration. Topics covered include: conducting systematic research in political science/public administration, measurement theory, bivariate analysis, hypothesis testing and statistical inference. (F)

G5923 Measurement and Analysis for Public Administrators. Prerequisite: 5913 or permission of instructor. Prepares students and practicing administrators for conducting applied research in the public administration/public policy area. Major topics include: research problems in PA; research design; measurement techniques; and using analysis for decision making. (Irreg.)

G5933 Intermediate Analysis of Political Data. Prerequisite: 5913; 5000-level prerequisite. Continues the study of the foundations and use of quantitative methods in political science. Topics covered include: probability theory, distribution theory, control table analysis, analysis of variance and correlation and regression analysis. (Sp)

G5940 Advanced Research Methods: Special Topics. 1 to 3 hours. Prerequisite: 5913 or permission of instructor. May be repeated with change of subject matter; maximum credit six hours. Provides introduction into advanced qualitative or quantitative analytical methods for students who will pursue a career in research. Topics will vary but may include such methodologies as ethnographic, cultural, discriminant, or factor analysis. (Irreg.)

G5943 Maximum Likelihood Estimation for Generalized Linear Models. Prerequisite: 5933. Introduces a number of new and useful statistical models that move beyond standard linear regression. Among the topics covered are log-linear, logit, and probit models for both binary, multinomial and ordinal dependent variables, event count models, duration models, and models of heteroskedastic regressions. Maximum likelihood provides a single, coherent approach to estimation and a way of thinking about how data are generated. (Irreg.)

G5950 Research Problems. 2 to 5 hours. May be repeated with change of subject matter; maximum credit ten hours. Students must indicate field of research and hours credit at the time of enrollment. To be subdivided topically as follows: American national government, public administration, American state and local government, public law, popular government, international relations, comparative government, political theory, elections and political behavior, behavioral laboratory. (F, Sp, Su)

G5960 Directed Readings. 1 to 3 hours. Prerequisite: graduate standing or permission of instructor. May be repeated, maximum credit six hours. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, six hours. (F, Sp, Su)

Unless otherwise noted, the prerequisite for courses numbered 6000–6993 is graduate standing and permission of instructor. All seminar courses may be repeated with change of subject matter.

G6003 Political Science: Survey of a Discipline. Prerequisite: admission to doctoral program in political science. Traces the development of the discipline of political science as well as the epistemological and theoretical foundations of the field. Emphasis is given to the role of research design for political analysis. Attention also is devoted to the professional norms and expectations of an academic career in political science. (Every third semester)

G6023 Field Seminar in American Politics. Prerequisite: graduate standing. Seminar designed to introduce as much of the field of American politics as possible. Includes epistemology and paradigms, institutionalism, the various political institutions that structure our politics, and the role of the individual in American politics. (Irreg.)

G6103 Field Seminar in Public Administration. Prerequisite: graduate standing. Review of the field of public administration. Investigates epistemology and paradigms of the field and considers the role of bureaucratic organizations in the American system of governance. (Irreg.)

G6123 Seminar in American Politics and Bureaucracy. Content varies; examination of topics relating to the role of bureaucracy in the American political system and the economic, political and cultural impact of other institutions upon bureaucracy. (Irreg.)

G6143. Seminar in Public Organization Behavior. Covers the literature of organization theory which led to the organization behavior movement. Deals with the models or organization behavior in a cultural as well as organizational/governmental framework. (Irreg.)

G6163 Seminar in Legislative Studies. Prerequisite: graduate standing. Will be devoted to in-depth examination of issues in legislative studies. (Irreg.)

G6173 Seminar—Public Administration. Directed research in selected areas of public administration. Commentary and discussion by instructor over general area or areas selected for research. Paper prepared by students and based upon individual research presented to the seminar for analysis and discussion. Example of topic: Decision making in governmental bureaucracy. (Irreg.)

G6223 Seminar—Public Policy. Analyses of various approaches to the study of public policy. Research papers may focus on either specific approaches to the study of public policy or the use of a particular approach in analyzing a specific policy area. (Irreg.)

G6383 Seminar in Political Communication (Crosslisted with Communication 6383). May be repeated with change of topic; maximum credit nine hours. Considers current topics in political communication theory and research. (F)

G6603 Field Seminar in Comparative Politics. Prerequisite: graduate standing. This course is an exploration of the central theoretical concepts and problems of comparative politics. (Irreg.)

G6753 Seminar in Political Theory. Participants should have a basic knowledge of the history of political theory and should have taken at least one core graduate course in the field (5713, 5723, 5733) or the equivalent. The intensive study of a major text or issue in political theory. Topics examined in recent years include the politics of Aristotle, Rousseau, the political theory of the Enlightenment, and the Greek theory of the Polis. (Irreg.)

G6980 Research for Doctor’s Dissertation. (F, Sp, Su)

Portuguese (PORT)

1115 Beginning Portuguese. Develop the skills necessary to grasp fundamental principles of Portuguese and Luso-Brazilian culture, and to acquire basic proficiency in the four skills of language learning: listening, speaking, reading and writing. (F, Sp) [I-FL]

1225 Beginning Portuguese Continued. Prerequisite: 1115. Give continuity to the skills acquired during the first semester of Portuguese in order to become more fluent in the spoken language as well as more proficient in writing. (F, Sp) [I-FL]

2113 Intermediate Portuguese. Prerequisite: 1225. Develops reading skills and control of grammar while cultivating depth of oral and writing ability. Emphasis on expansion of vocabulary and strong reinforcement of grammatical structures. Reading and discussion of texts of literary and cultural interest. Oral and written assignments. (F, Sp)

2223 Intermediate Portuguese (Continued). Prerequisite: 2113. Refines reading skills and mastery of grammar. Emphasis on sophisticated vocabulary and understanding of grammatical structures. Literary and cultural texts discussed in oral and essay form. (F, Sp)

3113 Advanced Portuguese. Prerequisite: 2223. Develops further reading skills and control of grammar, cultivates speaking and writing ability, and exposes students to a wide range of topics covered daily by Brazilian newspapers and magazines. (F)

3223 Advanced Portuguese Continued. Prerequisite: 3113. Continuation of 3113. Develops further reading skills and control of grammar while cultivating depth of oral and writing ability. Exposes the student to a wide range of topics covered daily by Brazilian newspapers and magazines. (Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

4990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. (F, Sp)

Psychology (PSY)

1113 Elements of Psychology—Beginning Course. A survey of the scientific study of human behavior. Emphasis is placed upon scientific method, basic life processes, mechanisms of adaption, individual differences and group behavior. Students have the opportunity to be exposed to the research process either by serving as participants in research experiments or by conducting reviews of research topics. (F, Sp, Su) [III-SS]

2003 Understanding Statistics. Cannot be substituted for 2113. Prerequisite: Math 0123 or satisfactory score on math placement test. An introductory applied statistics course which will focus on descriptive and inferential statistical methods. Emphasis will be placed on in-class activities and homework which help the student learn by experience. Topics include measures of central tendency and variability, z-scores, normal distribution, correlation, regression, sampling distributions, hypotheses testing, t-tests and chi-square tests. Laboratory (F, Sp, Su) [I-M]

Course Descriptions
2113 Research Methods I: Statistics. Prerequisite: 1113 and satisfactory score on the math placement test (equivalent to completion of Math 0123). An introduction to scientific method in psychological research. Topics include: philosophical issues; hypothesis formulation; experimental design; and data collection, organization and interpretation. Laboratory (F, Sp, Su)

2213 Survey in Information Processing, Perception and Cognition. Prerequisite: 1113 or permission. Surveys the sensory, perceptual and information processing systems of the human. Covers the basic mechanisms of the major senses, how stimuli are identified and classified, and how this information is then processed by the brain. (Irreg.)

2403 Introduction to Personality. Prerequisite: 1113. Processes of personality formation and development. "Normal" and "neurotic" personalities; basic principles of personality development. (F, Sp, Su)

2503 Computing for Behavioral Sciences. Teaches basic programming skills necessary for experimental and theoretical science. The language will be: PASCAL. (F, Sp, Su)

2513 Psychology of Personal Adjustment. Prerequisite: 1113. An applied personality course for majors and non-majors. Basic information and principles from personality, social psychology and learning are applied to real-life problems to help students gain insight into ways and means of coping with their personal concerns. (Irreg.)

2603 Developmental Psychology. Prerequisite: 1113. Survey of the psychological changes across the life span; the changes in cognitive, social and emotional physiological development from conception to death will be included. (F, Sp, Su)

2910 Special Topics in Psychology. 1 to 3 hours. Prerequisite: 1113 or permission. May be repeated once with change of topic; maximum credit six hours. Special topics in psychology requiring a minimal background in psychology. Topics typically will be of an applied nature. (F, Sp, Su)

3003 Advanced Undergraduate Statistics. Prerequisite: 2113 or equivalent. Review of previous material, SAS, multiple comparisons, two-way ANOVA, power calculations, repeated measures designs, multiple linear regression, general linear model, nonparametric methods. Designed to help students prepare for graduate statistics courses. (Irreg.)

3043 Sensory Functions (Crosslisted with Zoology 3043). Prerequisite: 1113 or Zoology 1114 and 1121. A comparative survey of the anatomy and physiology of visual, auditory and olfactory systems, as related to their biological significance. Topics covered include sensory functions in communication, predator avoidance and prey capture. (Irreg.)

3083 Animal Behavior (Crosslisted with Zoology 3083). Prerequisite: eight hours of zoology including 1114 and 1121 or permission of instructor. History, philosophy and methods of ethology; causation, ontogeny, function and evolution of behavior; orientation and navigation; sociobiology. (F)

3092 Animal Behavior Laboratory (Crosslisted with Zoology 3092). Prerequisite: junior standing; concurrent or previous enrollment in 3083. Students will conduct both laboratory and field experiments on various aspects of animal behavior, including communication, foraging, parent care and aggression. (F)

3114 Research Methods II: Applications and Experimental Design. Prerequisite: 1113 and 2113. Laboratory investigation of processes involved in animal and human learning, information processing, motivation, perception, sensation, social-personality, developmental, physiological and comparative psychology. Required of all undergraduate psychology majors. Laboratory (F, Sp, Su)

3202 Laboratory in Cognition. Prerequisite: 2113 or permission of instructor, and 3203 or concurrent enrollment. Laboratory study of human cognitive processes. Experiments illustrate topics in attention, perception, learning, memory, language, reasoning, decision making and problem solving. Laboratory (Irreg.)

3203 Cognitive Psychology. Prerequisite: 1113, 2113 or permission of instructor. Surveys how people extract relevant information from their environment and store, retrieve and utilize such information at a later time. Topics will include memory storage and retrieval, attention, imagery, mnemonic devices and other cognitive processes. (F, Sp)

1G3303 Introduction to Learning and Conditioning. Prerequisite: 1113, 2113, or permission of instructor. The origin of theory and research in learning, primarily classical and instrumental conditioning. (F)

3603 Child Development. Prerequisite: 1113, 2113. Focus on development from conception to adolescence. Examine child development in terms of learning, cognition, language, personality, social, biological, intellectual, etc.; dimensions. (Irreg.)

3703 Social Psychology. Prerequisite: 1113, 2113. Research methods and results of research in such areas as social attitudes, attitude change, social learning, social motivation, social cognition and social judgment. (F, Sp)

3803 Physiological Psychology. Prerequisite: 1113 or equivalent and Zoology 1114 or equivalent. An introduction to physiological and neurological foundations of behavior. Some emphasis will be placed on contemporary issues and theoretical models. (F, Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program, 2113. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program, 2113. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program, 2113. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied, 2113 or permission of instructor. May be repeated; maximum credit, six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

1G4023 Psychological Tests and Measurements. Prerequisite: 1113, 2113, junior standing. An introduction to the measurement of human behavior. Special reference is given to tests of intelligence, achievement, personality and interest. (Irreg.)

4113 Capstone Survey of Major Fields in Psychology. Prerequisite: 3114 or permission of instructor, senior standing. Lecture-based course focusing on major areas of psychology. Attempts to instill in the student an understanding of the integration and diversity of the field of psychology. (Sp)

4143 Capstone Practicum Experience. Prerequisite: 2403, 3114, 4453, senior standing and permission of instructor. Provides students with the opportunity to apply the principles and techniques of psychology to their own lives. (Irreg.)

4153 Capstone History of Psychology. Prerequisite: 1113, 2113, 3114 or permission of instructor, and senior standing. Introduction to the origin of modern psychology within science. The origins of psychology will be examined from the ancient Greeks through philosophy, physiology and anatomy. Special emphasis will be placed on the historical trends and the people involved in these. (F, V)

1G4213 Attention and Perception. Prerequisite: 2113, 3203. In-depth review of issues in early stages of information processing. Topics covered include: divided attention, iconic memory, subliminal perception, automatic processes, pattern recognition, perception, optical illusion, neurophysiology of sensory systems, etc. (Irreg.)

1G4223 Language and Comprehension. Prerequisite: 3203 or permission of instructor. In-depth review of issues in language comprehension, grammar, reading, vocabulary acquisition, test comprehension, discourse process, psycholinguistics, speech perception, pragmatics and inferences. The emphasis will be on current research investigations. (Irreg.)

1G4243 Decision Making and Problem Solving. Prerequisite: 2113, 3203. Review of issues in inductive thinking, deductive reasoning, inference generation, problem solving, insight, expertise, algorithms, and heuristics. The emphasis will be on current research investigations. (Irreg.)

4253 Selected Topics in Cognitive Science. Prerequisite: 1113, 2113, 3114; 3203 or permission of instructor. May be repeated with change of content; maximum credit six hours. Seminar focusing on specific issues in cognitive science. Topics include memory representation and retrieval, symbol and referent processing, knowledge structure, expert and novice differences, imagery, etc. (Irreg.)

G4313 Motivation. Prerequisite: 2113 and 3303. Primary motivational states and learned motivational states (e.g., fear, frustration, anxiety, etc.) will be considered as well as emotion and curiosity. Topics of current interest in both human and animal motivation will also be covered. (Irreg.)

G4403 Advanced Personality. Prerequisite: 1113, 2113, 2403, 2603 or 3603, 3114 or concurrent enrollment, and junior standing; or permission of instructor. An examination of the major approaches, concepts, issues and research findings in the field of personality. (Irreg.)
G4453 Abnormal Psychology. Prerequisite: 1113, 2113, and 2403, or permission of instructor. An examination of the major clinical and research findings in the field of abnormal psychology. Topics include studies of conflict, anxiety, neurosis, character disorders, schizophrenia and psychotherapy. (F, Sp)

4510 Applications of Psychology Practicum. 1 to 3 hours. Prerequisite: 2113, twelve hours of psychology, permission of instructor. May be repeated, unlimited to two enrollments. Individualized field experiences in an area of interest in psychology. (F, Sp)

G4533 Introductory Behavior Modification Techniques. Prerequisite: 1113, 2113 and junior standing; or permission of instructor. Applications of behavior principles of reinforcement and punishment to various areas of human endeavor are discussed with emphasis on recently reported literature. Some example topics include: behavior modification in self-adjustment; education; industry; or therapy. (F)

4533 Seminar: Multicultural Understanding. Prerequisite: senior standing and twelve hours of social science or permission of instructor. May be repeated with change of topic; maximum credit six hours. Examines how individual racial/ethnic subcultures influence the style of cognitive processing of African-American, Native American Indian, Hispanic/Latino, Asian American, and Euro-American. Examines the implications of differences for various issues (academic performance, standardized test scores, differential interest, concept development, and the educational curriculum). (F, Sp, Su)

G4613 Current Topics in Developmental Psychology. Prerequisite: 2603 or 3603, 2113 or permission of instructor. May be repeated with change of subject matter; maximum credit six hours. An advanced seminar dealing with contemporary issues in developmental psychology. Content will vary with the instructor. (Irreg.)

G4703 Psychology of Leadership. Prerequisite: senior standing or permission of instructor. Provide students with an understanding of the psychological principles underlying leadership in government, industry, and society. Review psychological research on leadership and management, examining topics such as leadership skills, leading changes in organization, leader-follower relationships, and leadership tactics. Students will participate in various exercises to analyze leadership strategies and assess their potential strengths and weaknesses as leaders. (Sp)

†G4733 Selected Topics in Social Psychology. Prerequisite: 2403 or 2603, 3703, junior standing, or permission of instructor. May be repeated once with change of topic; maximum credit six hours. Content will vary with the instructor. Deals with central topical areas of study in social psychology (e.g., attitudes and social cognition; person perception; groups and group dynamics; or theory construction). (Irreg.)

4753 Industrial Psychology. Prerequisite: 1113, 2113 or permission of instructor. A study of the application of psychological principles, methods and techniques in business and industry. (Irreg.)

4793 Psychology of Groups. Prerequisite: 1113, Provides students with an understanding of the psychological principles underlying group behavior. Topics covered will include group formation and development, cohesion and norms, social influence, power, inter-group relations, stereotyping and prejudice, group decision making, diversity within groups, stigma in the workplace, social identity, leadership in groups, group performance, and staffing organizational groups. (Irreg.)

4823 Developmental Psychology. Prerequisite: 2113, 2603 or 3803; or permission of instructor. Advanced seminar which will include such topics as: prenatal, neural and sensory development and cultural differences in child rearing. Discussion of specific developmental issues from the behavioral and biological levels of analysis. (Irreg.)

4843 Animal Cognition. Prerequisite: 2113 and Zoology 1114, or permission of instructor. How animals represent space, time, and number; estimate findings in the field of abnormal psychology. Topics include studies of conflict, anxiety, neurosis, character disorders, schizophrenia and psychotherapy. (F, Sp)

1 to 3 hours. Prerequisite: 1113, 2113, and junior standing (or honors students). May be repeated once. Enrollment limited to majors with grade point averages of at least 3.00 and acceptance of an application, or by invitation by faculty member. Designed for students contemplating graduate school to offer experience in all aspects of psychology. Individual assignments of special instructional tasks in psychology. Supervised instructional experience will be part of each enrollment. (F, Sp, Su)

4913 Bachelor of Science Thesis. Prerequisite: 2113, 3114, admission to B.S. program in psychology and permission of B.S. adviser. B.S. candidates are required to generate an independent research project, under the direct supervision of their specific faculty sponsor and overseen by the B.S. adviser. This course will be used for this function and only this function. (F, Sp, Su)

G4920 Current Topics in Basic and Applied Psychology. 1 to 3 hours. Prerequisite: 1113 and five or six hours of other social sciences, or permission of instructor. May be repeated with change of topic; maximum credit nine hours. Content and number of credit hours varies with instructor and section. Focus on current topics in psychology not covered in existing course offerings. Intended for purpose of offering high interest course topics during regular semester, summers and intersession. (F, Sp, Su)

G4923 Theories and Systems in Psychology. Prerequisite: 1113, 2113, junior standing. Introduction to theoretical psychology; uses of systems and theories; techniques of theory construction; analysis of such concepts as intervention-orientable, explanations, model, system. The content, uses and historical antecedents of modern theory, including field theory, information theory, dissonance theory and various learning theories. (F, Sp)

G4940 Seminar in Psychology. 1 to 3 hours. Prerequisite: 1113, 2113, junior standing, permission. May be repeated once with change of topic; maximum credit six hours. Advanced seminar dealing with contemporary issues and problems in psychology. Content varies with instructor. (F, Sp, Su)

4990 Independent Study. 1 to 3 hours. Prerequisite: 2113 and three courses in general area to be studied, 3114, and permission of instructor. May be repeated; maximum credit six hours. Contract independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5003 Psychological Statistics I. Prerequisite: graduate standing and undergraduate statistics course, or permission of instructor. Applied statistics with emphasis upon statistical problems in behavioral sciences research. Includes probability, descriptive statistics, estimations and test of hypotheses. Techniques covered in depth include t-test, one and two factor ANOVA methods, multiple comparison methods (e.g., Scheff, Tukey, Ryan, etc.), and the robustness of these techniques to violation of their assumptions.

G5013 Psychological Statistics II. Prerequisite: 5003 or equivalent, or permission of instructor. The general linear model is covered as it applies to the analysis of variance including fixed, mixed, and random models, individual comparisons, analysis of covariance, and multiple regression. Also, some nonparametric techniques are discussed including chi-square and distribution free procedures.

G5043 Quantitative Methods in Evaluation Research. Prerequisite: 5003 or equivalent. The role of quantitative analysis in psychological, educational and program evaluation is discussed, with emphasis on experimental design, sampling theory, randomization tests, analysis of covariance models and structural equation methods. (Irreg.)

G5053 Exploratory Data Analysis. Prerequisite: 5003 or equivalent. Uses new statistical approaches by Tukey, Mosteller and others to introduce students to EDA. Topics include graphical data analysis, robustness and resistance, data transformations and fitting mathematical models to data.

G5103 Physiological Psychology. Prerequisite: graduate standing or permission. Surveys the neuroanatomical, hormonal and biochemical bases of food and water intake, sleep and dreaming, emotion, reward and punishment, learning and memory, mental disorders. (Irreg.)

G5203 Survey in Cognitive Psychology. Prerequisite: graduate standing or permission. Survey of the field of cognitive psychology designed to provide a foundation for the study of human mental processes. Topics include: pattern recognition, attention, episodic memory, semantic memory, psycholinguistics, comprehension, reasoning, decision making and problem solving.

G5280 Seminar in Cognitive Processes. 1 to 4 hours. Prerequisite: 5203 or permission of instructor. May be repeated with change of subject matter; maximum credit six hours. Considers special topics in cognitive psychology emphasizing recent research literature.

G5303 Classical Conditioning. Prerequisite: undergraduate course in psychology of learning and graduate standing or permission. Methods of classical conditioning and their application to behavior are discussed. (Irreg.)

G5403 Theories and Methods in Developmental Psychology. Prerequisite: graduate standing in the department or permission of instructor. Examination of the theories and methods specific to life-span developmental psychology. (Irreg.)

G5413 Personality. Prerequisite: graduate standing or permission of instructor. Survey of modern personality theory and research. Strong emphasis on current limited domain theories of personality, research methodology unique to personality research, and major issues facing this area. Individual research proposals are developed.
G5423 Social Psychology. Prerequisite: graduate standing or permission of instructor. Background, basic findings, principles, and laboratory studies of social situations; properties of human groups, norm formation, intergroup relations, social motivation, effects of language, attitude formation and change, ego-involvements, reference groups, individual and social change. (Irreg.)

G5703 Survey of Industrial/Organizational Psychology. Prerequisite: graduate standing. An overview of the theory and practices used in industrial/organizational psychology. Focus on the general principles involved in applying psychological theory in the work place, considering applications at the individual, group, and organizational level. Also considers the major methodological techniques used to support those applications. (F)

G5713 Training and Development. Prerequisite: 5703. Design and development of training courses as well as practical considerations in the delivery of training in organizational settings. (Sp)

G5783 General Seminar in Industrial and Organizational Psychology. Prerequisite: 5703. May be repeated with change of content; maximum credit nine hours. Examine in-depth one or more topics that provide a basis for current work in industrial and organizational psychology. May include topics such as leadership, motivation, performance management, job satisfaction, and individual differences. (F)

G5901 Foundations of Psychological Science I. Prerequisite: admission to graduate psychology program. Overview of current research in psychological science. Discussion of ethics, professional development, the pedagogical arts, methodology and grantsmanship. Participants complete a first year research project including a grant proposal, presentation at a professional meeting and presentation in a professional speaker series. (Irreg.)

G5911 Foundations of Psychological Science II. Prerequisite: 5901. Continuation of 5901. Advanced topics in professional development, research planning, funding and communication. (Irreg.)

G5960 Directed Readings in Psychology. 1 to 4 hours. Prerequisite: graduate standing, permission of instructor, adviser and dean. Maximum credit nine hours. Supervised reading of selected topics in psychology by agreement of instructor and student. (F, Sp, Su)

G5970 Pre-Master's Research in Psychology. Prerequisite: graduate standing; pre-master's status; permission of instructor. May be repeated; maximum credit nine hours. Supervised research in area agreed upon by student and instructor. Students conducting research for the master's thesis should enroll in 5990. (F, Sp, Su)

G5980 Research for Master's Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G6003 Measurement and Scaling. Prerequisite: 5003, 5013 or familiarity with matrix algebra and permission. The development of psychological measurement theory and scaling methods is traced through history, culminating in an in-depth study of current multidimensional scaling (MDS) methods. MDS models covered include the classical MDS model, unfolding models, ALSCAL, INDSCAL and cluster models. (F, Su)

G6013 Factor Analysis and Structural Equation Models. Prerequisite: 5003, 5013 or equivalent. Several exploratory factor analysis models are discussed including principle factors, maximum likelihood, and alpha-factors analysis. Factor-analytic like models such as components analysis and image analysis are also covered. Offers an overview of the application of structural equations in the social sciences. (Irreg.)

G6023 Quantitative Models in Cognition. Prerequisite: 5203 or permission. Detailed examination of current data and theory in the psychology of language including grammar, syntactic processing, memory for language, inference making, implicatures, discourse processing, reading, and language acquisition. (F)

G6025 Psychological Linguistics. Prerequisite: 5203 or permission. Detailed examination of current data and theory in the psychology of language including grammar, syntactic processing, memory for language, inference making, implicatures, discourse processing, reading, and language acquisition. (Irreg.)

G6133 Seminar in Biopsychology. Prerequisite: 5103, 6103, 6163 or permission. May be repeated with change of topic; maximum credit nine hours. Special topic areas in biopsychology will be considered in detail. (Irreg.)

G6203 Advanced Tools and Methods in Cognition. Prerequisite: 5203 or permission. Demonstration and application of the tools and methods of the cognitive scientist, with a special emphasis on software tools, including MATLAB, SPSS, SAS, S, Plus, Neurel, and UNIX. (F, Sp, Su)

G6213 Attention and Memory. Prerequisite: 5203 or permission. Detailed examination of current data and theory in attentional and automatic processes, short- and long-term memory, implicit memory, and the effect of knowledge on memory. (F)

G6223 Quantitative Models in Cognition. Prerequisite: 5203 or permission. Survey of quantitative models in cognition, with an emphasis on model development and techniques for model testing and development will be taught and supported by exercises. (Irreg.)

G6253 Psycholinguistics. Prerequisite: 5203 or permission. Detailed examination of current data and theory in the psychology of language including grammar, syntactic processing, memory for language, inference making, implicatures, discourse processing, reading, and language acquisition. (Irreg.)

G6263 Introduction to Cognitive Science. Prerequisite: 5203 or permission. In-depth consideration of the interdisciplinary approach to mind. Includes topics in cognitive psychology, artificial intelligence, linguistics, philosophy, and neuroscience. (F)

G6280 Advanced Seminar in Cognitive Processes. 1 to 4 hours. Prerequisite: 5203 or permission. May be repeated with change of subject matter; maximum credit twelve hours. Special topics in human learning and memory or in memory and cognitive processes will be considered in detail, emphasizing recent research literature and development of research proposals. (Irreg.)

G6423 Seminar in Social Psychology. Prerequisite: graduate standing and permission. May be repeated with change of topic; maximum credit twelve hours. Intensive study of the major problem areas in social psychology, e.g., problems of attitude formation and change, intergroup relations, reference groups, collective interaction, social-psychological concepts as research tools. (F)

G6433 Seminar in Theories of Personality. Prerequisite: graduate standing in Psychology or permission of instructor. May be repeated with change of topic; maximum credit twelve hours. Intensive exploration of both traditional and modern theories of personality. Examples from several major categories of personality theory are examined through intensive primary readings, writing, and discussion. (Irreg.)

G6643 Seminar in Developmental Psychology. Prerequisite: graduate standing or permission of instructor. May be repeated with change of topic; maximum credit twelve hours. Involves in-depth study of theory and research in major areas of developmental psychology, e.g., social cognition, peer relations, emotions, temperament and personality, morality, aggression, theory of mind. (Irreg.)

G6703 Advanced Seminar in Industrial and Organizational Psychology. Prerequisite: 5703. May be repeated with change of content; maximum credit nine hours. Focus in-depth on one or more topics examining the area with respect to new theoretical developments and major research findings. Topics may include active, emergent research areas likely to lead to changes in theoretical and professional practice including motivation, team effectiveness, work and family issues, changes in job design, etc. (Sp)

G6903 Seminar in Contemporary Problems. Prerequisite: five graduate courses including 5003 or permission of instructor. May be repeated with change of topic; maximum credit eighteen hours. Content dependent upon faculty member in charge of the seminar at the time it is offered. (Irreg.)

G6910 Readings in Psychology. 1 to 4 hours. Prerequisite: advanced graduate standing (post-master's). May be repeated; maximum graduate credit nine hours. Supervised reading for advanced students. Topics chosen by agreement of instructor and student. (F, Sp, Su)

G6920 Research in Learning, Motivation and Comparative Psychology, 1 to 6 hours. Prerequisite: permission of instructor only. May be repeated; maximum graduate credit eighteen hours. Supervised individual laboratory research on major projects in an area of mutual interest with a faculty member. Upon advice of the instructor involved, enrollment for work on minor research projects in the above areas may alternatively be in 4990. (F, Sp, Su)

G6933 History of Psychology. Prerequisite: graduate standing. Introduction to origin of modern psychology within science. Origins are examined from the ancient Greeks through philosophy, physiology, and astronomy. Special emphasis placed on the historical trends and the people involved. (Irreg.)

G6930 Research in Cognitive Processes, Sensation-Perception and Physiological Psychology. 1 to 6 hours. Prerequisite: permission of instructor only. May be repeated; maximum graduate credit eighteen hours.
Regional and City Planning (RCPL)

2113 Introduction to the City (Crosslisted with Geography 2113). Cities and regions; cities and suburbs; housing for rich and poor; industry and commerce; transportation; public policies and urban politics; planning responses to urban problems. (Irreg.)

4003 The Global City and Planning Issues (Crosslisted with Geography 4003; Slashlisted with 5003). Prerequisite: English 1213 and junior standing. An introduction to the concept of globalization and its effects on cities, and the city planning issues related to those effects. Characteristics, theories, and strategies of city development are reviewed. Cities are observed from several perspectives: natural and built environment, governance, society, economics, and history. No student may earn credit for both 4003 and 5003. (Sp)

G4863 Environmental Impact Assessment (Crosslisted with Environmental Science 4863). Prerequisite: Environmental Science 3603 or graduate standing. Implementation of NEPA; description of environmental setting; prediction and assessment of impacts on physical-chemical, biological, cultural and socioeconomic environments; impact assessment methodologies; public participation; writing environmental impact statements. (Sp)

G5003 The Global City and Planning Issues (Crosslisted with Geography 5003; Slashlisted with 4003). Prerequisite: graduate standing. An introduction to the concept of globalization and its effects on cities, and the city planning issues related to those effects. Characteristics, theories, and strategies of city development are reviewed. Cities are observed from several perspectives: natural and built environment, governance, society, economics, and history. No student may earn credit for both 4003 and 5003. (Sp)

G5013 History and Theory of Urban Planning (Crosslisted with Political Science 5013). Prerequisite: open to seniors in social science departments, civil engineering and architecture, and to graduate students in regional and city planning. An introductory course on the history and theory of contemporary planning, focusing on the physical, social, institutional and economic structure and dynamics of human settlements, and on the role and responsibilities of the professional planner. (F)

G5033 Sociology of Housing (Crosslisted with Sociology 5033). Prerequisite: twelve hours of sociology and graduate standing; open to graduate students in regional and city planning. A study of major developments in housing in the U.S. since 1860, including housing reform agitation, sociological problems, ecological patterns of housing areas, minimum standards for healthful housing, government intervention and its current role, and problems of providing adequate housing for different social groups. (F)

G5052 Planning Management. Prerequisite: 5013. Introduces concepts and techniques of effective planning management, and addresses the factors that affect planning such as politics, organizations, and ethics. (Irreg.)

G5113 Urban Planning Research Methods. Prerequisite: graduate standing or permission of instructor. Introduces the basic research and statistical methods used by urban planners and related professions. The course emphasizes application of statistical methods to urban planning problems. (F)

G5173 Urban and Regional Analysis (Crosslisted with Economics 5173). Prerequisite: 5113 or equivalent. A lecture-seminar-problems-oriented course designed to acquaint the student with the scientific techniques used to analyze urban and regional social, economic, political and environmental problems. Oriented to reflect requirements for studies leading to the preparation of goals, plans, and policies for urban and regional scale development. (Sp)

G5203 Urban Land Use Controls (Crosslisted with Political Science, Sociology 5203). Prerequisite: open to seniors in social sciences, architecture and civil engineering, and to graduate students in regional and city planning. A study of the historical development of property systems; of zoning law, ordinance preparation, and administrative procedures; of subdivision regulations and other codes used in the regulation and control of land use. (Sp)

G5213 Principles and Practice of Urban Planning (Crosslisted with Geography 5213). Prerequisite: open to seniors in social science departments, architecture and civil engineering, and to graduate students in regional and city planning. Examines the physical, social, economic, and public interest determinants of land use; the economic, population, and land use studies required to provide the basis for planning; space and location requirements and design characteristics for residential, commercial, industrial, and public uses of land; and the study of urban traffic as a function of land use in terms of structure and systems of movement. (Irreg.)

G5343 Urban Facilities Planning (Crosslisted with Architecture 5343). Prerequisite: graduate standing or permission. An introduction to the concepts of city design and management; long- and short-term considerations in urban facilities planning. Tactical facility planning and management in organizational environment; site, layout, economic criteria, human factors, facility planning-programming standards. (F)

G5353 State and Local Public Finance and Budgeting Systems (Crosslisted with Political Science 5353). Prerequisite: graduate standing or permission. An overview of the process and methods for local capital improvement programs and capital budget preparation, and an examination of the relationships between local development policies and fiscal decision making, including revenue potential. (Irreg.)

G5373 Transportation Economics (Crosslisted with Civil Engineering 5373). Prerequisite: graduate standing or permission. Financial and economic aspects of transportation planning, with emphasis on highway and public mass transportation systems. Federal, state, and local financing and administration; practical analysis techniques; and related issues such as government policy and transit productivity. (Irreg.)

G5453 Public Mass Transportation Systems (Crosslisted with Civil Engineering 5453). Prerequisite: 3884 or permission of instructor. Service characteristics of the principal modes of public mass transportation with emphasis on urban transit (fixed-route bus, light rail, subways, commuter rail, paratransit, taxi); legislation and regulations; institutional structures; financing; need and demand studies; planning strategies; management; operations and record keeping; case studies of leading systems. (Irreg.)

G5463 Computer Mapping and G.I.S. in Planning. Prerequisite: graduate standing or permission. Introduction to the concepts of urban and regional passerger and freight demand; travel demand forecasting methodologies; long- and short-range planning strategies; role of governments; characteristics of major modes of transport; decision-making strategies; case studies. (Sp)

G5493 Transportation and Land Development (Crosslisted with Civil Engineering 5493). Prerequisite: graduate standing or permission. Study of interactions between land development activity and the transportation network. Application of planning and design techniques to manage the impacts of development upon the transportation system. (Irreg.)

G5513 Subdivision and Planned Unit Development Planning. Prerequisite: graduate standing. Theories, concepts, and methods used to plan and assess the subdivision of land based on typical legal code requirements. Topics include legal requirements, human settlement issues, economic aspects, environmental analysis, infrastructure systems, land use, and city planning requirements of preliminary and final plats. (Sp)

G5515 Urban Planning Laboratory (Crosslisted with Landscape Architecture 5515). Prerequisite: 5213, 5613, enrollment in regional and city planning or permission of staff. A laboratory course, using the problems system, designed to indicate both theoretical and practical solutions to planning problems, and to demonstrate some of the methodology, techniques, basic studies and skills which are employed in urban planning. Laboratory. (Sp)
course designed for the specific needs of students desiring intensive study in a specialized phase of urban or regional planning. Studies are provided in urban and regional analysis, community organization and action programs, and similar areas of concern. Laboratory (F, Sp, Su)

G6320 Field Studies. 1 to 6 hours. Prerequisite: 5213, 5613, enrollment in regional and city planning or permission of staff. Provides the individual student with practical experience in working on a professional staff on a specific planning project. The design of the project and the staff situation under which the student will work is carefully controlled to provide opportunity for significant and meaningful experience. (F, Sp, Su)

G6643 Urban Design Theory (Crosslisted with Architecture and Landscape Architecture 6643). Prerequisite: graduate standing. A survey of theory relevant to the urban design process, including social and behavioral concepts, visual and aesthetic theory, spatial and geographic factors of urban form. (Sp)

G6652 Urban Design Seminar (Crosslisted with Architecture 6652). Prerequisite: permission of instructor. An advanced seminar in urban design problems through the means of an in-depth and on-site investigation and evaluation of significant national and international urban development projects. (Sp)

### Religious Studies (RELS)

#### 1113 Introduction to Religion.
Basic human values and our sense of the promise of human existence have historically been the special province of religion. An examination of religious phenomena throughout history, to include comparative consideration of some religious traditions, as well as critical questions regarding the proper role and adequacy of religion. (Irreg.)

#### 2013 Introduction to Religious Traditions.
An introduction to religious traditions, examining traditions such as Buddhism, Hinduism, Islam, Christianity, and native traditions as well as other religious traditions. (Irreg.)

#### 2413 Religion, Culture, and the Meaning of Life.
Examines religion as a resource for understanding values and for making meaning of life. The study will include comparative consideration of some religious traditions, as well as critical questions and analysis regarding the proper role and adequacy of religion. (Irreg.)

#### 2960 Directed Readings.
1 to 3 hours. Prerequisite: Permission of instructor. May be repeated with change of content; maximum credit nine hours. An examination of religious texts, and may include the Koran, Jewish scriptures, Christian scriptures, Bhagavad Gita, Vedas, etc. (Irreg.)

#### 2970 Directed Readings.
1 to 3 hours. Prerequisite: Permission of instructor. May be repeated with change of content; maximum credit nine hours. An examination of religious traditions, and may include traditions such as Buddhism, Hinduism, Islam, Judaism, Christianity, and Scandinavian traditions. (Irreg.)

#### 2980 Directed Readings.
1 to 3 hours. Prerequisite: Permission of instructor. May be repeated with change of content; maximum credit nine hours. An examination of religious traditions, and may include traditions such as Judaism, Christianity, and Scandinavian traditions. (Irreg.)

#### 3013 Special Topics in Religious Texts.
Prerequisite: Junior standing or permission of instructor. May be repeated with change of text; maximum credit nine hours. An examination of religious texts, and may include the Koran, Jewish scriptures, Christian scriptures, Bhagavad Gita, Vedas, etc. (Irreg.)

#### 3023 Special Topics in Religious Traditions.
Prerequisite: junior standing or permission of instructor. May be repeated with a change of content; maximum credit nine hours. An examination of religious traditions, and may include traditions such as Judaism, Christianity, and Scandinavian traditions. (Irreg.)

#### 3033 Special Topics in Religion, Literature & the Arts.
Prerequisite: junior standing or permission of instructor. May be repeated with a change of content; maximum credit nine hours. An examination of the relationship of religion, literature, and the arts, and may include study of various religious explorations through art, music, or literature; or the influence of religious traditions upon the art, music, or writing of a culture or society. (Irreg.)

#### 3043 Special Topics in Religion, Social Organization & Politics.
Prerequisite: junior standing or permission of instructor. May be repeated with a change of content; maximum credit nine hours. An examination of issues and topics in religion, social organization and politics. (Irreg.)

#### 3053 Special Topics in Religion and History.
Prerequisite: junior standing or permission of instructor. May be repeated with a change of content; maximum credit nine hours. An examination of religious phenomena throughout history, appearance and development of religious traditions, or special issues or topics in religion and history. (Irreg.)

#### 3063 Special Topics in Religion and Philosophy.
Prerequisite: junior standing or permission of instructor. May be repeated with a change of content; maximum credit nine hours. An examination of issues and topics in religion and philosophy. (Irreg.)
3113 Internship in Religious Studies. Prerequisite: Major in Religious Studies, junior standing, and permission of instructor. Practical vocational experience in the community directed by a Religious Studies faculty member; includes a significant research paper. (Irreg.)

3123 Comparative American Christianity. Prerequisite: 1113, or Anthropology 1823, or Philosophy 1203 or 2403; and junior standing or permission of instructor. An overview and analysis of American Christianity, including the comparison of various denominational origins and traditions. (F)

3403 Studies in Comparative Religion. Prerequisite: junior standing or permission of instructor. An advanced study of religious ideas and practices, texts and traditions, to identify areas of similarity, areas of difference, and the various influences religions may have upon each other as well as on society and culture. (Irreg.)

3413 Approaches to the Study of Religion. Prerequisite: 1113 or 2413, Anthropology 1823, Philosophy 1203, or Philosophy 2403, and junior standing or permission of instructor. Examines ways religion may be studied in order to better understand it. The course will include approaches and methodologies of the social sciences and humanities. (Irreg.)

3643 Special Topics in Religious Studies: Travel Abroad. Prerequisite: RELS major or minor, junior standing, permission of instructor and satisfaction of criteria established by OU Education Abroad office (including overall GPA of 2.5). May be repeated with change of content/location; maximum credit six hours. An examination of themes, shifts, events or major sites of various religions. (Irreg.)

3900 Special Topics. 1 to 4 hours. Prerequisite: junior standing or permission of instructor. May be repeated with change of topic; maximum credit nine hours. Topics in Religious Studies not accommodated by the existing curriculum. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: Admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Topics will cover materials not usually presented in the regular course offerings. Will provide an opportunity for the gifted Honors candidate to work at a special project in the student’s field. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: Admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. Topics will cover materials not usually presented in the regular offerings. Will provide an opportunity for the gifted Honors candidate to work at a special project in the student’s field. (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: 1113, Anthropology 1823, Philosophy 1203 or 2403; junior standing, and permission of instructor. May be repeated; maximum credit six hours. Through a written contract, independent study may be arranged for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or field projects. (F, Sp, Su)

4323 Capstone. Prerequisite: Major in Religious Studies and permission of instructor. Capstone provides the opportunity to integrate knowledge about the major and apply it to a project culminating in a presentation and senior paper. The project will develop a selected problem, issue, or controversy in religious studies. (F, Sp) [V]

4990 Independent Study. 1 to 3 hours. Prerequisite: 1113, Anthropology 1823, Philosophy 1203 or 2403; senior standing, and permission of instructor. May be repeated; maximum credit six hours. Through a written contract, independent study may be arranged for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or field projects. (F, Sp, Su)

Russian (RUSS)

1115 Beginning Russian. An elementary course in understanding, speaking, reading and writing Russian. (F, Sp, Su) [I-FL]

1225 Beginning Russian (Continued). Prerequisite: 1115. An elementary course in understanding, speaking, reading and writing Russian. (F, Sp, Su) [I-FL]

2003 Masterpieces of Russian Literature in Translation. Acquaints the students who have had no previous background in the Russian language or Russian literature with the most important writers of the classical period of Russian culture. Analyzes the works of Russian classics in depth with consideration of their impact beyond the frontiers of Russia. May not be used to meet College of Arts and Sciences intermediate foreign language requirement. (Correspondence)

2113 Intermediate Russian. Prerequisite: 1225. Training in reading, writing, speaking, and understanding contemporary Russian. Emphasis on expansion of vocabulary and strong reinforcement of grammatical structures. (F, Sp)

2223 Intermediate Russian (Continued). Prerequisite: 2113. Continued training in reading, writing, speaking, and understanding contemporary Russian. Emphasis on expansion of vocabulary and strong reinforcement of grammatical structures. (F, Sp)

2323 Advanced Russian Reading and Composition. Prerequisite: 2223. A systematic grammar review with a view toward improving the student’s control of written Russian. (F)

3023 Beginning Business Russian. Prerequisite: twenty hours of Russian. Intended to enable Russian students to read, write, and translate business Russian. Readings in this course will consist of translating business orders, contracts, agreements and other areas of commercial correspondence. (Correspondence)

3037 Russian Conversation. Prerequisite: 2223. Intensive practice in speaking Russian on topics of everyday life. (F, Sp)

3123 Advanced Business Russian. Prerequisite: twenty hours of Russian, 3023. Enables Russian reading and translation of more advanced Russian business texts. Readings will consist of translating business orders, contracts, agreements and other areas of commercial correspondence. (Correspondence)

3203 Scientific Russian. Prerequisite: ten hours of Russian. Training in the reading of scientific material of gradually increasing difficulty. (Irreg.)

3213 Scientific Russian. (Continued) Prerequisite: 3203. Training in the reading of scientific material of gradually increasing difficulty. (Correspondence)

3313 Russian Phonetics. Prerequisite: 2113. A detailed study of the sounds of Russian and the inculcation of proper speech habits. (Irreg.)

3423 Advanced Russian Reading and Composition (Continued). Prerequisite: 3323. A systematic grammar review with a view toward improving the student’s control of written Russian. (Sp)

The prerequisite for courses numbered 3900-4999 is seventeen hours of Russian. Other specific prerequisites are so indicated.

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually covered in regular coursework.

3990 Independent Study. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted Honors candidate to work at a special project in the student’s field. (F, Sp, Su)

4173 Topics in Nineteenth-Century Russian Literature and Culture. Prerequisite: 3423. May be repeated once with change of content; maximum credit six hours. A course for advanced students of the Russian language. All reading assignments and lectures will be in Russian. (F)

4183 Topics in Twentieth- and Post-Twentieth Century Russian Literature and Culture. Prerequisite: 3423. May be repeated once with change of content; maximum credit six hours. A course for advanced students of the Russian language. All reading assignments and lectures will be in Russian. (Sp) [V]

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp)

The prerequisite for courses numbered 5000 or over is twenty-five hours of Russian. Other specific prerequisites are so indicated.

G5910 Problems in Research. 2 to 4 hours. May be repeated with change of content; maximum credit nine hours. An individual course of intensive research with the area and problem to be determined by the student and directing instructor. (F, Sp)
Social Work (S WK)

2113 Introduction to Social Work. Prerequisite: Sociology 1113 or concurrent enrollment; sophomore or junior standing. This course familiarizes students with the social work profession, beginning with the social welfare history and development of social work in the U.S. This provides the context to understand modern social work's purposes, values, scope and methods. (F, Sp)

2223 Statistics for Social Work. Prerequisite: Math 0123 or satisfactory score on math placement exam. Introduction to statistics and data analysis in social work and the helping professions. Covers descriptive statistics (univariate and bivariate), inferential statistics (estimation and significance tests) and data interpretation (casualty and generalizability). (F, Sp, Su) [I-M]

3003 Interviewing Skills for Generalist Practice. Prerequisite: majors only; corequisite: 3103, 3233. An introduction to the basic interviewing process for conducting ethical generalist practice in a multicultural society. Interviewing skills presented will include: basic attending, empathic listening, observation, reflection of feelings, supportive confrontation and structuring of an effective non-judgmental interview. (F)

3103 Generalist Practice with Individuals and Families. Prerequisite: majors only; corequisite: 3003 and 3233. First of three methods courses in the social work practice sequence using a generalist practice model focused on knowledge, values and skills of professional social work practice with various client systems. Course emphasizes development of skills for assessment and intervention with individuals and families. (F)

3113 Generalist Practice with Families and Groups. Prerequisite: 3103; corequisite: 3243. Second of three methods courses in the social work practice sequence using a generalist model focuses on knowledge, values and skills requisite for social work practice with various client systems. Course emphasizes development of knowledge and skills specific for work with families and groups. (Sp)

3233 Human Behavior: Individuals and Families. Prerequisite: majors only; corequisite: 3003, 3103. Within a social systems framework and biopsychosocial perspective, students learn empirically-based theories which deal with life-span development and family behavior. This course provides a theoretical foundation for micro and mezzo level generalist practice. (F)

3243 Human Behavior: Groups, Organizations and Communities. Prerequisite: 3233; corequisite: 3113. Building on the theoretical content in 3233, students learn theories related to group, organization and community dynamics and behavior. Special attention is given to establishing theoretical foundations for the assessment of mezzo and macro level systems. (Sp)

3313 Social Welfare Policy: Analysis and Practice. Prerequisite: 2113, 3233. An overview of social welfare in modern times, including its philosophy, history, values, and ethics, is studied within a broad social science framework. Policy practice is presented from a generalist perspective. (Sp)

3323 Cultural Diversity and Oppression. Prerequisite: majors only, or permission of instructor; Sociology 1113; and junior standing. Focuses on social and cultural diversity, including the interests and needs of social and cultural minorities from their perspectives. The nature of diversity is stressed while theoretical explanations of oppression, racism, and discrimination are examined. (F)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in regular coursework. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework.

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp, Su)

4010 Special Topics in Social Work and Social Welfare (Slashlisted with 5010). 2 to 3 hours. Prerequisite: upper-division standing or permission of director. May be repeated up to three times with change of content; maximum credit nine hours. Focus is on issues significant to social work or social welfare. No student may earn credit for both 4010 and 5010. (F, Sp, Su)

4083 Social Work Research I. Prerequisite: senior standing; 2223 or equivalent, and 3113. An introduction to research methods applied to the profession. Problem identification and formulation, study design and instrumentation are included. The student is required to develop a research design appropriate to generalist social work practice. (F)

4093 Social Work Research II. Prerequisite: 4083. The project based on the research design developed in Social Work 4083 is completed. Students are engaged in practice evaluation using skills in data collection, analysis of data, and report writing. (Sp)

4103 Generalist Practice with Organizations and Communities. Prerequisite: 3113, 3243; corequisite: 4111, 4135. Third of three methods courses in the social work practice sequence using a generalist model focuses on knowledge, values and skills requisite for social work practice with various client systems. Course emphasizes development of knowledge and skills specific for assessment and intervention with organizations and communities. (Sp)

4131 Practicum Seminar I. Prerequisite: senior standing and 3113; corequisite: 4131. Integration of knowledge, values, and skills derived in social work courses with practicum situations. (F, Sp, Su)

4135 Practicum I. Prerequisite: senior standing and 3113; corequisite: 4111. A structured, educationally directed experience in social work practice, provided under the supervision of a qualified social worker as practicum instructor. (F, Sp, Su)

4322 Practicum Seminar II. Prerequisite: 4131, 4135; corequisite: 4325. A continuation of the educational experience in 4131. In combination with 4325, this course comprises the General Education capstone experience in social work. Focus is on the integration of theories, principles, and skills for evaluating generalist practice competency. (Sp) [V]

4325 Practicum II. Prerequisite: 4131, 4135; corequisite: 4322. A continuation of the educational experience in 4135. In combination with 4322, this course comprises the General Education capstone experience in social work. (F, Sp, Su) [IV]

G3333 Alcohol and Drug Abuse. Prerequisite: 3263 or equivalent. Survey of theoretical and research writings on the etiology, dynamics and social work treatment of substance abuse (alcohol and drugs) in contemporary American society. Considerable emphasis on social work practice (casework and group work) with substance abusers. (F)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be covered; permission of instructor and undergraduate program coordinator. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field practicum projects. (F, Sp, Su)

G5010 Special Problems in Social Work and Social Welfare (Slashlisted with 4010). 2 to 3 hours. Prerequisite: upper-division or graduate standing. May be repeated with change of content; maximum credit 12 hours. Focus is on issues significant to social work or social welfare. Non student may earn credit for both 4010 and 5010. (F, Sp, Su)

G5083 Social Work Research Methods I. Prerequisites: Graduate standing in social work and an introductory course in statistics. The course is an introduction to the design and implementation of quantitative and qualitative research methods that are appropriate to social work and human services program evaluation. (F)

G5093 Social Work Research Methods II. Prerequisites: Graduate standing in social work and 5083. The course is a continuation of 5083 and is an introduction to applied data analysis methods that are appropriate to research in social work practice and human services program evaluation. (Sp)

G5103 Generalist Practice with Individuals, Families, and Groups. Prerequisites: Graduate standing in social work; Corequisite: 5233. This is the first of two required foundation year method courses in generalist social work practice. The course continues the exploration of the generalist perspective that focuses on the knowledge, values, skills, and techniques appropriate to assessment and interventions with individuals, families, and groups. (F)

G5113 Generalist Practice with Groups, Organizations, and Communities. Prerequisite: 5103; Corequisite: 5243. This is the second of two required foundation year method courses in the generalist social work practice. The course continues the exploration of the generalist perspective that focuses on the knowledge, values, skills, and techniques appropriate to assessment and interventions with groups, organizations, and communities. (Sp)

G5143 Models for Gender and Culturally Sensitive Practice. Prerequisite: second-year graduate standing in social work or permission of instructor. Feminist and culturally sensitive methods of facilitating empowerment at all-sized system levels will be presented within a generalist practice model. A strengths and wellness perspective will be emphasized. Issues related to diversity among women and special populations will be interwoven throughout the course content. (F)

G5203 Social Work and the Law. Prerequisite: graduate standing. Examines law and the legal system. Special attention is given to legal issues impacting social service programs, clients, and the profession of social work. (F)
**Course Descriptions**

**G5233 Human Behavior: Individuals and Families.** Prerequisite: Graduate standing in social work. Within a social systems framework and biopsychosocial perspective, students learn empirically-based theories which deal with life-span development and family behavior. This course provides a theoretical foundation for micro and mezzo level generalist practice. (F)

**G5243 Human Behavior: Groups, Organizations, and Communities.** Prerequisite: 5233; Corequisite: 5113. Building on the theoretical content in S WK 5233, students learn theories related to group, organization, and community dynamics and behavior. Special attention is given to establishing theoretical foundations for the assessment of mezzo and macro level systems. (Sp)

**G5313 Social Welfare in a Changing World.** Prerequisite: graduate standing in social work. An historical and descriptive review of U.S. welfare policies, introduction to social welfare policy analysis, and the role of the social work profession in affecting change in social welfare policy. (F)

**G5333 Human Diversity and Social Oppression.** Prerequisite: graduate standing in social work. Focuses on social work practice issues in the context of human diversity, differential power, societal oppression, and discrimination. Emphasis is on the interpersonal transactions between and within groups who differ by race, ethnic/cultural heritage, religion, gender, socio-economic status, sexual orientation, physical limits, and generational status. (F)

**G5410 Social Work Practicum I.** 2 to 4 hours. Prerequisite: graduate standing in social work and 5103, 5113 or concurrent enrollment. A professionally supervised practicum placement in area social service agencies that includes an experimental practice skills laboratory. (F, Sp)

**G5420 Social Work Practicum II.** 2 to 4 hours. Prerequisite: graduate standing in social work and 5103, 5113 or concurrent enrollment. Continuation of G5410. (Sp, Su)

**G5490 Research Investigations in Social Work.** 1 to 6 hours. Prerequisite: graduate standing and permission of instructor, advisor, and graduate program coordinator. May be repeated; maximum credit twelve hours. Initiation and completion of an individual or group research project dealing with some aspect of social work. Students are expected to demonstrate knowledge of the scientific method as applied to social work. Emphasis will be on student’s capacity to elaborate implications of research findings for social work theory and practice. (F, Sp)

**G5903 Advanced Direct Practice.** Prerequisite: second-year graduate standing in social work. Advanced social work practice using a social systems orientation. The course focus includes system dynamics, client system assessment, intervention and evaluation of outcomes. Special attention is paid to issues associated with poverty, oppression, cultural diversity, and promotion of client well-being. (F)

**G5553 Administration in Social Work.** Prerequisite: second-year graduate standing in social work, concentration in administration and community practice, concurrent enrollment in 5763 and 5633. First in a sequence of two advanced practice seminars in the school's administration and community practice concentration. Course content is based on a social systems model. Primary attention is given to the roles of administrator and planner in social work/social welfare settings. (F)

**G5603 Supervision and Consultation.** Prerequisite: second-year graduate standing in social work or permission of the instructor. Addresses the development of skills in supervision and consultation of social work practice in agency context. The tasks of supervision and consultation are addressed in a social systems context and address the issues confronting supervisors in a multicultural society. (F)

**G5613 Advanced Group Work.** Prerequisite: second-year graduate standing in social work. Advanced social group work practice using a social systems perspective to enhance well-being in the group context. (F)

**G5623 Advanced Social Work Practice with Families.** Prerequisite: second-year graduate standing in social work. Provides an integrated learning experience in the theory and practice of social work with families. An overview of theories of family functioning and contemporary approaches to family-oriented practice which provides a systemic base for understanding and utilizing the helping process with special attention given to the design and implementation of practice evaluation. (F)

**G5633 Program Planning and Implementation.** Prerequisite: second-year graduate standing in social work, concentration in administration and community practice, concurrent enrollment in 5553 and 5763. Designed to enable students to obtain skills in planning and program implementation through development of funding proposals. (F)

**G5713 Adult Psychopathology.** Prerequisite: graduate standing, 5233, 5243 or equivalent. The study of adult psychopathology based on the current diagnostic and statistical manual of mental disorders. Several diagnostic categories will be addressed from a biopsychosocial perspective, emphasizing the theoretical foundation for these mental illnesses. (F)

**G5763 Community Analysis and Organization.** Prerequisite: second-year graduate standing in social work and concentration in administration and community practice, concurrent enrollment in 5553 and 5633. Examines the community and the state as a social system. Within this framework, several concepts, theories and approaches to practice are examined. Special attention is given to social problem identification, assessment, funding advocacy and related matters. (F)

**G5820 Social Work Practicum III.** 8 to 12 hours. Prerequisite: second-year graduate standing in social work, concurrent enrollment in either 5973 (for direct practice students) or 5983 (for administration and community practice students). Educationally focused field practicum in community setting or agency. (Sp)

**G5960 Directed Readings.** 1 to 4 hours. Prerequisite: graduate standing and permission of instructor, advisor and graduate program coordinator. Directed readings and/or literature reviews under the direction of a faculty member. May be repeated; maximum credit six hours. (F, Sp, Su)

**G5973 Empirical Social Work Practice: An Integrated Approach.** Prerequisite: second-year graduate standing in social work, concentration in direct practice; 5503, 5603 and either 5613 or 5623; concurrent enrollment in 5820. A seminar in the application of research findings and empirical outcome evaluation techniques to professional practice. (Sp)

**G5983 Social Service Monitoring and Evaluation.** Prerequisite: second-year graduate standing in social work, and concentration in administration and community practice; 5553, 5763, 5633, concurrent enrollment in 5820. This seminar is designed to enable students to integrate learning experiences in the administration and community practice concentration through monitoring and evaluation. (Sp)

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**Sociology (SOC)**

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have substantial additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

**1113 Introduction to Sociology.** The fundamental concepts of sociology: foundations of group life; social change, processes, and problems. (F, Sp, Su [III-S])

**1523 Social Problems.** Analysis of major social problems of contemporary U.S. and policy debates concerning them. Examination of social science theory and research that are relevant to understanding these problems. Development of social institutions in which social problems occur. (F, Sp, Su) [IV-W] 2003 Introduction to Women’s Studies (Crosslisted with Women’s Studies 2003). Designed to incorporate interdisciplinary perspective on women’s history, sociology and psychology as well as their contributions to the arts, literature, and science. Multi-cultural and international dimensions of women’s studies are integral to the course. In addition to assigned readings, students are expected to execute regular writing assignments and group projects. (F, Sp) [IV-WC]

Unless otherwise noted, the prerequisite for courses in sociology numbered 3000-3999 is 1113, junior standing, or permission of the instructor.

**3123 Social Statistics (Crosslisted with Political Science 3123).** Prerequisite: 1113 or permission of instructor. Descriptive and inferential statistics as they are used in sociology to analyze survey and macro-level data. Problems of research design and interpretation of analysis in sociological theory are major topics. A grade of C or higher in this course is a prerequisite for Sociology capstone courses. (F, Sp, Su)

**3133 Methods of Social Research (Crosslisted with Anthropology 3133).** Prerequisite: 1113 or permission of instructor. Basic elements of the scientific method as applied to the study of human group life. Attention is given to the problem of conceptualization, the formulation of hypotheses, designs of proof, the interdependence of theory and fact and the techniques and procedures for assembling and ordering of data. A grade of C or higher in this course is a prerequisite for Sociology capstone courses. (F, Sp, Su)

**3523 Sociology of Crime and Delinquency.** Prerequisite: 1113 or sophomore standing. A study of the nature and causes of various forms of deviant and illegal behavior, especially serious personal injury and property crimes (e.g., homicide, burglary). While some consideration is given to biological and psychological explanations, the primary focus is on sociological theories that attempt to explain crime, criminality, and victimization in modern societies. (F, Sp)
3533 The System of Criminal Justice. Prerequisite: 1113 or permission of instructor. An analysis of the sociological literature on the American system of criminal justice, viewed as a system of social control. Emphasis is on the functional significance of the system in relation to the various interests represented in the law. Attention given to special problems in each of the major components of the system: law enforcement, the administration of justice and corrections. (F, Sp)

3543 Sociology of Deviance. Prerequisite: 1113 or permission of instructor. The sociological study of deviant behavior with emphasis on so-called victimless crimes (e.g., drug use) and on normative violations that are not necessarily illegal (e.g., mental illness). Focus is on sociological theories and processes by which behaviors are defined as deviant, and how these definitions affect the individual. (F, Sp)

3553 Sociology of Law. Prerequisite: 1113 or permission of instructor. Provides a sociological understanding of the interrelationship between law and society. Covers the origins of law, types of legal systems, theories of punishment, and examines law as an independent variable (i.e., as a mechanism for social change) and as a dependent variable (i.e., how laws are created or changed by social pressure). (F, Sp)

3623 Minority and Ethnic Groups. Prerequisite: 1113 or permission of instructor. Intergroup conflict resulting from the efforts of subordinate groups. Consideration of theories of prejudice and discrimination as devices of control over racial, religious, ethnic and other minority groups. (Irreg.)

3643 Population Problems. Prerequisite: 1113 or permission of instructor. Introduction to population study. Analysis of human mortality, fertility and migration. Evaluation of demographic theories with emphasis on social and cultural factors. (Irreg.)

3683 Wealth, Power, and Prestige. Prerequisite: 1113 or sophomore standing or above. Examines the systems in which the central elements of class stratification—wealth, power, and prestige—are created and distributed and addresses the issue of “who gets how much and why?” Topics include a review of the theories and evidence in current stratification studies and an assessment of the racial, ethnic, and religious correlates of inequality. (F, Sp)

3713 Medical Sociology. Prerequisite: 1113 or permission of instructor. A study of the role of family, social class and culture factors in health and morbidity. Focus is on the role of the medical system with other social institutions such as government, church, education, and family. (F, Sp)

3723 Sociology of Family. Prerequisite: 1113 or sophomore standing or above. The sociological study of the family as an institution; the origin and development of the family; the interrelationships of the family and the larger society; the environmental conditions which seem to favor the development and continuance of the major family forms; the rise of the modern democratic family; characteristic patterns of change in the contemporary family. (F, Sp)

3733 Sociology of Gender. Prerequisite: 1113 or permission of instructor. Sociological analysis of the reinforcement of gender roles by the major institutions of society. Examines the effects on gender roles of education, mass media, economics, public policy, law, religion, and society. (Irreg.)

3753 International and Comparative Sociology. Prerequisite: 1113 or permission of instructor. May be repeated with change of region of focus; maximum credit six hours. A systematic consideration of a particular region of the world. The region of focus in any one semester will either be East Asia, Africa, or Latin America. Topics may include issues of cultural uniqueness and national character, population dynamics, family structures and values, and economic and political institutions. Emphasis is placed on a global perspective and encourages cross-national contrasts. (Irreg.) [III-SS]

3803 Inequality in a Global Perspective. Prerequisite: 1113 or permission of instructor. Examines the causes and consequences of socioeconomic inequality in contemporary societies (including the U.S.) by using theories and research evidence from the vantage point of international political economy. Topics include: the nature, structure, and hierarchy of the global economy; the link between international and national distributions of wealth and power; and the racial, ethnic, and religious correlates of social inequality. (Irreg.)

3813 Socialization Across the Life Course. Prerequisite: 1113 or permission of instructor. A survey of the interrelationships of the individual with society, the processes of socialization, personality development. Focus on continuation of socialization from childhood through adulthood and old age. (Irreg.)

3833 Urban Sociology. Prerequisite: 1113 or permission of instructor. Urbanization as a process involving an explanation of the causes and consequences of the rise of cities. Topics include: comparative world urbanization, the social and cultural correlates of urban life and population change related to urbanization. (Irreg.)

3843 Sociology of Aging. Prerequisite: 1113 or permission of instructor. Comprehensive description of the dimensions of aging. The point of departure is the notion that to talk meaningfully about one aspect of aging requires consideration of its other dimensions. (Irreg.)

3853 Social Problems in Contemporary Russia and Eastern Europe (Crosslisted with International and Area Studies 3853). Prerequisite: Junior standing or permission of instructor. An interdisciplinary study of social problems in Russia and eastern Europe. Topics include human and physical geography, lingering aspects of Soviet life, privatization, the impact of transition on social and governmental institutions, and the relationship between social structure and crime throughout the country. (Irreg)

3873 Religion and Society. Prerequisite: 1113 or permission of instructor. An analysis of the functional significance of religion in society. Topics include the distinction between magic and religion, the functional approach to social phenomena, the relationship between religion and the problem of order in human societies, the relationship between religion and other major institutional arrangements (e.g., the economy and the polity). (Irreg)

3883 Political Sociology (Crosslisted with Political Science 3903). Prerequisite: 1113 or permission of instructor. An analysis of power and authority relations, sources of political conflict and social change, and processes by which political consensus is created. Topics include theoretical origins, national and community power structures, political ideologies, voting behavior, social movements and revolutions. (Irreg.)

3890 Special Topics for Non-Majors. 1 to 3 hours. Prerequisite: 1113 or permission of instructor. May be repeated with change of content; maximum credit six hours. This course cannot be used to satisfy the major requirements in sociology. (F, Sp, Su)

3900 Special Topics in Sociology. 1 to 3 hours. Prerequisite: 1113 or permission of instructor. May be repeated with change of content; maximum credit six hours. Cover topics not currently offered in regularly scheduled courses. (Irreg.)

3960 Honors Reading. 1 to 3 hours. Prerequisite: 1113 or permission of instructor and admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular courses. (Irreg.)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: 1113 or permission of instructor and admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project in the student’s field. (Irreg.)

Unless otherwise noted, the prerequisite for courses in sociology numbered 4000-4999 is six hours of sociology including 1113 or permission of instructor.

4G4163 Advanced Social Statistics. Prerequisite: 1113, 3123 (B or better), 3133 (B or better); or permission of instructor. Statistical inference, applied to social science problems. Multiple regression and multivariate analysis will be covered. Computer applications using statistical packages and sociological data will be included. No prior computer background is assumed. (Irreg.)

4G4263 Qualitative Research Methods. Prerequisite: 1113, 3123 (B or better), 3133 (B or better), or permission of instructor. Explores the ethics and techniques of qualitative research, including ethnographic research, in-depth interviewing, historical analysis, and content analysis. The focus will be on strengths and weaknesses of qualitative methodologies, ethical issues, data gathering techniques, data analysis techniques, and data presentation. (Irreg.)

4G63 Sociological Theory. Prerequisite: 1113, 3123 (B or better), 3133 (B or better) or permission of instructor. Consideration of classical sociologists including Durkheim, Weber, and Marx. Attention is devoted to the application of classical theories to current research issues. (Irreg.)

4G63 Internship in Criminology. Prerequisite: 1113, 3123, 3133, and at least two of the following: 3523, 3533, 3543, 3553. Work experience in the field of criminology under the supervision of a faculty member. While the instructor will assist in finding internship opportunities, the ultimate responsibility is with the student. Internships may be served in any setting related to the field of criminology. Students will be required to develop a paper linking the work experience to scholarly research in criminology. (F, Sp, Su)

4G843 Capstone in Criminology. Prerequisite: 1113, 3123 (C or better), 3133 (C or better), and at least two of the following: 3523, 3533, 3543, 3553, or permission of instructor. As a key component of this course, students will actively participate in an in-depth analysis and discussion of a current research topic or topics in the sociological study of criminology (crime and delinquency, deviance, sociology of law, criminal justice). Students will be expected to use...
material they have learned in Sociology 3123 and 3133, as well as material in 3000-level substantive courses, and will be required to demonstrate in written assignments their ability to understand and critique current quantitative research. Other topics in the course will be at the discretion of the instructor but within the University guidelines for Capstone courses. (F, Sp) [V]

G594 Capstone in General Sociology. Prerequisite: 3113, 3123 (C or better), 3133, 3163, and at least two of the following: 3523, 3623, 3643, 3683, 3713, 3723, 3733, 3753, 4363, or permission of instructor. As a component of this course, students will actively participate in an in-depth analysis and discussion of a current research topic or topics in sociology (i.e., inequality, family, demography). Students will be expected to use material they have learned in Sociology 3123 and 3133, as well as material in 3000-level substantive courses, and will be required to demonstrate in written assignments their ability to understand and critique current quantitative research. Other topics in the course will be at the discretion of the instructor but within the University guidelines for Capstone courses. (F, Sp) [V]

4990 Independent Study. 1 to 3 hours. Prerequisite: Fifteen hours of Sociology (including 1113, 3123, 3133) and permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study topic for student not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

Unless otherwise noted, the prerequisite for courses in sociology numbered 5000 and above is twelve hours of sociology and graduate standing. Any exceptions must be approved by the departmental chairperson.

G5013 History and Theory of Urban Planning (Crosslisted with Political Science, Regional and City Planning 5013). Prerequisite: open to seniors in social science departments, civil engineering and architecture, and to graduate students in regional and city planning. An introductory course on the history and theory of contemporary planning, focusing on the physical, social, institutional and economic structure and dynamics of human settlements, and on the role and responsibilities of the professional planner. (F)

G5033 Sociology of Housing (Crosslisted with Regional and City Planning 5033). A study of major developments in housing in the U.S. since 1860, including housing reform agitation, sociological problems, ecological patterns of housing areas, minimum standards for healthful housing, government intervention and its current role, and problems of providing adequate housing for different social groups. (F)

G5203 Urban Land Use Controls (Crosslisted with Political Science, Regional and City Planning 5203). Prerequisite: open to seniors in social sciences, civil engineering and architecture, and to graduate students in regional and city planning. Provides a study of the historical development of property systems; of zoning law, ordinance preparation, and administrative procedures; of subdivision regulations and other codes used in the regulation and control of land use. (Sp)

G5283 Advanced Sociological Statistics I. Prerequisite: 3123, 3963, or graduate standing, or permission of instructor. Advanced statistical concepts and analysis; analysis of variance and covariance; multiple regression analysis; use of computers for statistical analysis. (F)

G5313 Qualitative Methods: Participant Observation (Crosslisted with Communication 5313). Prerequisite: graduate standing. Introduces students to the use of qualitative methods in social sciences research. Students will learn how to use participant observation, informal interviewing and other techniques to collect information on social sciences topics. (F)

G5333 Seminar in the Criminal Justice System. Prerequisite: graduate standing or permission of instructor. A critical examination of the American system of criminal justice. Attention will be given to the unique problems of the system and to each of its component parts. Special emphasis is placed on the role of extralegal factors in discretionary decision making by the principal actors within the system. (Irreg.)

G5383 Social Stratification. Prerequisite: graduate standing or permission of instructor. In-depth treatment of sociological theories, methods and research in the area of stratification and inequality. (Irreg.)

G5523 Criminology. Prerequisite: graduate standing or permission of instructor. Examines the patterns and correlates of crime at the individual, situational, and aggregate levels. Also includes examination of the history of criminological thought as well as contemporary explanations of crime, with an emphasis on critical evaluation of these explanations. (Irreg.)

G5543 Deviance and Social Control. Prerequisite: graduate standing or permission of instructor. A critical examination of the literature on deviance and social control with special emphasis on the scope of the field. The frame of reference for the examination will consist of one or more of the major theoretical perspectives in sociology: the functional, the conflict and the symbolic interactionist. (Irreg.)

G5623 Race and Ethnicity. Prerequisite: graduate standing or permission of instructor. Review of concepts and terminology of social differentiation, and in-depth study of the theories of prejudice and discrimination, power and dominance, and patterns of inter-group relations. Includes a history and analysis of race and ethnicity in the United States and other selected countries. (Irreg.)

G5703 Sociology of Education (Crosslisted with EDFN 5703). Prerequisite: at least two of the following: 3513, 3523, 3543, 3643, 3713, 3723, 3733, 3753, 4363, or permission of instructor. A systematic appraisal of social programs with the use of sociological research methods and statistics. Intensive survey of the literature in a selected area of sociology under the direction of a member of the staff. Instructors rotate each semester. (Sp)

G5823 Demographic Analysis. Prerequisite: graduate standing or permission of instructor. Introduction to the four variables that comprise the subject matter of demography: fertility, mortality, migration and age structure. Sources of demographic data for the study of these variables are examined and basic demographic statistics are covered. (Irreg.)

G5831 Teaching Seminar I. Preparation for teaching sociology. Taken prior to assignment of sole responsibility for teaching a course in sociology. (Sp)

G5833 Social Psychology. Prerequisite: standing in sociology or permission of instructor. Examines issues regarding research in social psychology and personality psychology. Addresses the history of social psychology research, issues, some class controversies, and new research directions in the field. Specific topics include social cognition attributes, attribution, the self, groups, expectation states, collective behavior, the life course. (Irreg.)

G5841 Teaching Seminar II. Prerequisite: 5831. For graduate students who are engaged in teaching a sociology course. (F)

G5863 Sociology of Law. Prerequisite: graduate standing or permission of instructor. Examines the relationship between law and society. Examines the origins of law, different legal systems and theories of punishment. How laws are created by social pressure and how laws contribute to social change. (Irreg.)

G5913 Evaluation Research. Prerequisite: graduate standing or permission of instructor. A systematic appraisal of social programs with the use of sociological research methods and statistics. (Irreg.)

G5933 Sociological Theory. Prerequisite: graduate standing or permission of instructor. Intensive analysis of the original writings of classical sociologists including Durkheim, Weber and Marx. Attention is devoted to the application of classical theories to current research issues. (F)

G5943 Inequality in a Global Perspective. Prerequisite: graduate standing or permission of instructor. Provides an in-depth review and analysis of the sociological concepts and theories used to study how wealth (and its correlates, power and prestige) are created and distributed. Special emphasis is placed upon how these processes work within and across national boundaries. (Irreg.)

G5293 Advanced Methods of Social Research. Prerequisite: 3123, 3963, or graduate standing or permission of instructor. Advanced research methodology; heavy focus of attention will be on conceptual measurement, index formation and survey research. (Sp)

G5960 Directed Readings in Sociology. 1 to 4 hours. Prerequisite: graduate standing, twelve hours of upper-division sociology. No more than six hours may be counted toward the M.A. degree. No more than twelve hours may be counted toward the Ph.D. degree. Intensive survey of literature in a selected area of sociology under the direction of a sociology faculty member. (F, Sp, Su)

G5980 Research for Master’s Thesis. Variable enrollment, two to nine hours; maximum credit applicable toward degree, four hours. (F, Sp, Su)

G6223 Seminar in Quantitative Methods. Prerequisite: 5283 and 5293. Specialized treatment of theoretical and applied topics in research methodology for advanced students. Primary focus is placed upon survey research. (Su)
Spanish (SPAN)

1115 Beginning Spanish. An elementary course in understanding, speaking, reading, and writing Spanish. Laboratory (F, Sp, Su) [I-FL]

1225 Beginning Spanish (Continued). Prerequisite: 1115. An elementary course in understanding, speaking, reading and writing Spanish. Laboratory (F, Sp, Su) [I-FL]

2113 Intermediate Spanish. Prerequisite: 1225 or equivalent. Develops reading skills and control of grammar while cultivating depth of oral and writing ability. Emphasis on expansion of vocabulary and strong reinforcement of grammatical structures. Reading and discussion of texts of literary and cultural interest. Oral and written assignments. (F, Sp, Su)

2223 Intermediate Spanish (Continued). Prerequisite: 2113. Refines reading skill and mastery of grammar. Emphasis on sophisticated vocabulary and understanding of grammatical structures. Literary and cultural texts discussed in oral and essay form. (F, Sp, Su)

3073 Spanish Conversation. Prerequisite: 2113 and 2223. Intensive practice in speaking Spanish on topics of everyday life. (F, Sp)

1G3423 Advanced Spanish Composition. Prerequisite: 2113 and 2223. The inculcation of proper writing habits, at an advanced level, toward the achievement of idiomatic Spanish. (F, Sp)

3623 Business Spanish I. Prerequisite: 2223. Introduces the specialized language used in commercial transactions, the organization and management of companies, the production of goods and services, the management of personnel and labor relations, financial resources, and real property. Emphasis on cultural aspects in Spain and Latin America that affect international trade. (F, Sp)

3723 Business Spanish II. Prerequisite: 3623. Concentration on domestic and international marketing practices, market segmentation, advertising, export/import, financing, retail/wholesale, and entry into international markets. Special attention is given to the training of the future manager for international trade. (Sp)

3733 Medical Spanish. Prerequisite: 2223. Develops oral proficiency for communication with Spanish-speaking patients in hospitals, clinics and offices. Intercultural issues will be continuously explored. This course may not count for major credit at the University of Oklahoma. (F)

3743 Legal Spanish. Prerequisite: 2223. Provides language proficiency for students in the legal professions. Intercultural issues will be continuously explored. This course may not count for major credit at the University of Oklahoma. (Sp)

3853 Readings in Spanish Literature. Prerequisite: 2223. Designed to improve reading comprehension and to introduce the language techniques of literary analysis. Representative works from the various literary genres will be studied. (F)

The prerequisite for courses 3900-4999 is seventeen hours of Spanish. Other specific prerequisites are as indicated.

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student's major program. The topics will cover materials not usually presented in the regular courses. (F, Sp)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. The projects covered will vary. The content will deal with concepts not usually presented in regular coursework. (F, Sp, Su)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted honors candidate to work at a special project in the student's field. (F, Sp)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G4093 Survey of Spanish-American Literature I. Prerequisite: 3853. A study of representative works from the colonial period to 1888. (F)

G4103 Survey of Spanish-American Literature II. Prerequisite: 3853. A study of representative works from 1888 to the present. (Sp)

G4153 Survey of Spanish Literature to 1700. Prerequisite: 3853. A study of representative works from the beginning to the Neo-Classic period. (F)

G4163 Survey of Spanish Literature (Continued). Prerequisite: 3853. A study of representative works from 1700 to the present. (Sp)
Course Descriptions

Supply Chain Management (SCM)

3213 Marketing Channels. (Crosslisted with Marketing 3213). Prerequisite: Marketing 3013, Marketing 3113 or concurrent enrollment in Marketing 3113. The processes of purchasing, materials management, physical distribution and the retail and wholesale institutions in the marketing channel. Focus is also placed on the selection, design and management of effective marketing channels with a view towards the development of an optimal distribution system for a firm. (F, Sp, Su)

3313 Electronic Marketing (Crosslisted with Marketing 3313). Prerequisite: Marketing 3013 and Marketing 3113 or concurrent enrollment in Marketing 3113. Addresses how businesses use the internet and other computer technologies as marketing tools. The emphasis is on understanding the unique opportunities and challenges associated with electronic marketing in order to better implement a firm’s overall marketing strategy. (F)

3323 Purchasing and Buyer Behavior (Crosslisted with Marketing 3323). Prerequisite: Marketing 3013, Marketing 3113 or concurrent enrollment in Marketing 3113. Consumer and organizational buying processes are examined. Individual and organizational decision-making frameworks, information technology, and the external environment are studied in the context of forming marketing strategies and tactics. Topics include make or buy decision making; supplier development and outsourcing; supplier evaluation, selection, and management; buyer-seller relationships; purchasing capital goods and services; international and electronic commerce; information processing; social and economic influences; preference formation and change; and image creation and positioning. (F, Sp)

3343 Retailing Management (Crosslisted with Marketing 3343). Prerequisite: Marketing 3013, Marketing 3113 or concurrent enrollment in Marketing 3113. An analytical approach to the management of retail institutions. Addresses strategic and operating level decision making related to delivery of products and services to consumers, focusing on each of the four dimensions of the marketing mix. Includes modules on electronic commerce and ethical responsibility. (F, Sp, Su)
Telecommunications (TCOM)

4223 Logistics Management (Crosslisted with Marketing 4223). Prerequisite: Marketing 3013, Marketing 3113 or concurrent enrollment in Marketing 3113. The physical supply and distribution function in business management, including channel selection, transportation, facility location and materials management; concentrates on the analytical and managerial methods necessary for the development and control of an integrated logistics system. (F, Sp)

4232 Supply Chain Management. Prerequisite: 4223. Supply chain operating practices and principles (i.e., the fundamentals of materials and logistics management). Studies and analyzes the dynamic nature of supply chain management for products and services and addresses the impact of the global economy on the management process. The course also develops a solid foundation in the theory of supply chain design, which includes strategies for customer service, quality, logistics, inventory management, and integrated supply chain management. Includes forecasting, postponement, sourcing (in particular, global sourcing), network design, and virtual integration (web-centric) and illustrates these concepts through cases. (Sp)

4523 International Marketing (Crosslisted with Marketing 4523). Prerequisite: Marketing 3013, Marketing 3113 or concurrent enrollment in Marketing 3113. Study of marketing concepts and their international implications, dealing with international market structure, framework for multinationals, marketing, strategic guidelines for global marketing strategies, pricing, promotion, product and distribution strategies for international markets. Special assignments include case studies, country analysis, article reviews and a term paper on special interest related to international marketing. (F)

5113 Telecommunications Industry Overview. Prerequisite: graduate standing. Studies the development of telecommunications technology, industry, and policy in the United States, stressing inter-relationships among industry, government bodies and policies, and users. Provides a broad view of telecommunications and the direction of the industry. (F)

5123 Wireless Communications (Crosslisted with Electrical and Computer Engineering 5123). Prerequisite: Electrical and Computer Engineering 3793 or permission. Wireless communications principles, multiple access techniques, wireless networking, and systems and standards. (F)

5133 Multimedia Communications. Prerequisite: Electrical and Computer Engineering 3793 or permission. Basic concepts of compression and networking techniques for multimedia signals. (F, odd-numbered years)

5213 Network Design and Management. Prerequisite: graduate standing. Covers the basic issues in the design and management of telecommunications networks. (Sp)

5223 Optical Systems and Networks. Prerequisite: ECE 3793. Comprehensive study of new developments and how optical technology is used in optical systems and networks; covers optical fiber applications as the best transmission medium for high capacity traffic in communications networking; also how advanced photonic technology has enabled networks to transport broadband exceeding terabit/second/fiber. (Sp)

5253 Computer and Communications Security. Prerequisite: Boolean algebra or permission. Introduction to security problems in computing and communications, basic encryption and decryption techniques, secure encryption systems, cryptographic protocols and practices, security in networks and distributed systems, legal and ethical issues in computer security. (Sp)

5272 Telecommunications Laboratory. Prerequisite: 5113. Core course designed to enhance the understanding of concepts and principles discussed in the computer networking text through a variety of networking exercises. Also emphasizes network performance, simulation, and internet protocols. Includes approximately eight lab modules, with a short report required for each. (Su)

5353 E-Commerce Architecture. Prerequisite: graduate standing or permission. Comprehensive study of web commerce solutions, current and future. Includes designing, building, and managing web-enabled systems; gaining understanding of e-commerce strategies and how to specify, select, customize, and manage web-enabled and digital business. (Sp or Su)

5553 Telecommunications Technology. Prerequisite: graduate standing or permission. The ways and means by which voice, data and video traffic are moved long distances. Topics include data networks, telephone systems, video, and optical systems. (F)

5671 Professional Project Proposal Development. Prerequisite: admission to the TCOM program. May be repeated; maximum credit four hours. Supervised individual study to develop a comprehensive project, which will conclude TCOM studies. The project should demonstrate the student's comprehensive grasp of higher level of study. (F, Sp, Su)

5682 Professional Project. Prerequisite: 5671. May be repeated; maximum credit four hours. A comprehensive project that is jointly selected by the project supervisor and the student. The project is to be completed during the final semester. (F, Sp, Su)

5960 Readings in Telecomputing. 1 to 3 hours. Prerequisite: graduate standing. May be repeated with change of content; maximum credit nine hours. Students will study relevant material in the area of telecommunications or information systems. (Irreg.)

5970 Topics in Telecommunications. 1 to 3 hours. Prerequisite: graduate standing. May be repeated with change of content; maximum credit nine hours. Covers material from specialized topics in the area of telecommunication and information technology. (Irreg.)

University Courses (UNIV)

1000 University Course. Prerequisite: variable, generally at freshman level. May be repeated without restriction with change of subject matter. An interdisciplinary course, with subject matter, credit and format variable, and usually of an ad hoc and/or experimental nature. (F, Sp, Su)

1210 Freshman Mentoring Program. Introduction to the academic community; individual and group meetings to encourage student-faculty interaction and foster awareness of academic and cultural resources available to freshmen. (F, Sp)

2000 University Course. Prerequisite: variable, generally at sophomore level. May be repeated without restriction with change of subject matter. An interdisciplinary course, with subject matter, credit and format variable, and usually of an ad hoc and/or experimental nature. (F, Sp, Su)

3000 University Course. Prerequisite: variable, generally at junior level. May be repeated without restriction with change of subject matter. An interdisciplinary course, with subject matter, credit and format variable, and usually of an ad hoc and/or experimental nature. (F, Sp, Su)

4000 University Course. Prerequisite: variable, generally at senior level. May be repeated without restriction with change of subject matter. An interdisciplinary course, with subject matter, credit and format variable, and usually of an ad hoc and/or experimental nature. (F, Sp, Su)

University College (UCOL)

1001 Speed Reading on Computer. Prerequisite: ACT subtest reading score of 19 or above or COMPASS subtest reading score of 83 or above. Development of skills needed for improved reading speed and comprehension at the college course level. Course pedagogy is computer-based. (F, Sp)

1002 Gateway to College Learning. Orientation course to introduce freshmen to topics including the nature of higher education, library use, time management, essential academic skills (critical reading, writing, listening as well as test taking), campus policies, campus resources, and career education. The course assists students in the transition from high school to college. (F, Sp)

1012 Phillips Scholars Seminar I. Prerequisite: acceptance to Phillips Scholars Program. Orientation course which emphasizes academic skills, life skills, OU resources, Phillips resources, and internships. Discovery of necessary tools to complete a rigorous course of college study and further career possibilities with Phillips Petroleum. (F)

1022 Freshman Seminar. May be repeated with change of content; maximum credit four hours. Each seminar is developed and taught by an individual faculty member who leads students through an in-depth exploration of a specific intellectual topic. (F, Sp)

1030 Leadership Practicum. Prerequisite: permission of Freshman Programs Office. May be repeated with change of content and credit hours; maximum credit six hours. Leadership practicum content to include but not limited to campus cultural programming, presentation/public speaking, interviews/resumes, student program budgets, and peer assistant training. (F, Sp)

2002 Strategies for Success. Prerequisite: permission of instructor. May be repeated once; maximum credit four hours. Required for University College students the semester they are placed on probation or notice. The course will emphasize study skills, time management, motivation, responsibility, goal setting, and research techniques. (F, Sp)

2012 Phillips Scholars Seminar II: Process Analysis and Quality Tools. Prerequisite: 1012. Basic concepts of flow charting work processes and application of quality management tools to improve work flow, productivity and accountability of work tasks. Discover real life work processes and present findings for improvements. (F)

Course Descriptions
Women's Studies (W S)

1220 Title to be Specified by Department Offering the Course. 1 to 3 hours. Interdisciplinary course in women's studies. 1220 preceded by the department name will be an introductory women's studies course in two (or more) departments.

2003 Introduction to Women's Studies (Crosslisted with Sociology 2003). Designed to incorporate interdisciplinary perspective on women's history, sociology and psychology as well as their contributions to the arts, literature, and science. Multicultural and international dimensions of women's studies are integral to the course. In addition to assigned readings, students are expected to execute regular writing assignments and group projects. (F, Sp) [IV-WC]

2120 Interdisciplinary Course in Women's Studies. 1 to 3 hours. Prerequisite: appropriate standing. May be repeated in a given department, maximum credit nine hours, provided that the course title and content is different in each instance.

3043 Gender, Power and Leadership in Politics and Administration (Crosslisted with Political Science 3043). Prerequisite: Political Science 2113. Focuses on the relationship between gender, power, leadership, and government in politics and public administration. Causes of under-representation of women in elected office and the bureaucracy are explored. Historical, social, psychological, and organizational barriers are considered. (Irreg.)

3220 Title to be Specified by Department Offering the Course. 1 to 3 hours. 3220 preceded by the department name will be a junior level interdisciplinary course in women's studies. May be repeated with change of title and content; maximum credit nine hours. Content will be agreed upon by the departments in cooperation with women's studies.

3563 Women and World Politics. Prerequisite: junior standing or permission of instructor. This course looks at the contours of women's participation in formal political processes of elections, parliamentary and cabinet level representation, and political parties as well as informal processes. Cases will be examined form the U.S., Europe, Asia, the Middle East and Africa. (F, Sp) [IV-WC]

3610 Variable Topics in Women's Studies. Prerequisite: 3003. May be repeated with change of content; maximum credit nine hours. Content will vary but will cover a particular aspect of women's studies, be it history, art, communication, literature, contemporary social problems, theory, or other appropriate area of study. Texts and supplementary readings will be assigned according to the topics chosen. (F, Sp)

3933 History of the Great Witch-hunt in Early Modern Europe and America (Crosslisted with History 3933). Prerequisite: junior standing. Covers an important era in the history of human rights and misogyny while offering a view of early modern Europe through social, legal, political, and religious lenses. (Irreg.) [IV-WC]

3960 Honors Reading. Prerequisite: 2003 and admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the Women's Studies faculty member. Topics will cover materials not usually presented in regular courses. (Irreg.)

3980 Honors Research. Prerequisite: 2003 and admission to Honors Program. Individualized research with a women's studies faculty member on a topic leading toward work for the honors thesis. In-depth research of specialized topic in women's studies. (Irreg.)

4003 Method and Theory in Women's Studies. Prerequisite: 2100. Designed to acquaint majors with the inter-relationship between theory and methodology in Women's Studies. The course will interweave the sciences, social sciences, humanities, and arts. Students are expected to write weekly critiques, develop a research proposal, and do an oral presentation. (F)

4013 Women's Studies Internship (Slashlisted with 5013). Prerequisite: junior standing, permission of adviser and instructor, and an approved women's studies course. May be repeated; maximum credit six hours. Students must relate their academic experience to women's issues by working with a non-profit organization or project. Academic credit is based on the site supervisor's report and a substantial paper relating to the internship experience. No student may earn credit for both 4013 and 5013. (F, Sp, Su)

4120 Interdisciplinary Course in Women's Studies. 1 to 3 hours. Prerequisite: appropriate standing. May be repeated in a given department, maximum credit nine hours, provided that the course title and content is different in each instance.

4123 Contemporary Feminist Thought. Prerequisite: senior standing and permission of instructor. Introduce and examine several key books presenting important theoretical statements of contemporary feminism. Application of the different theoretical perspective to current issues of particular concern to women. A term project/paper with a written and oral presentation is required. (V)

4503 Women and Development in Latin America (Slashlisted with 5503). Prerequisite: introductory social science course or 2003. Explores traditional theories of development, gender and women's approaches to development, and post-colonial criticisms of development discourse. It examines the participation of women in Latin American economics, social movements, and revolutions. It also addresses issues of Latin American women and empowerment. No student may earn credit for both 4503 and 5503. (F)

4913 Women's Studies Senior Thesis. Prerequisite: senior standing and permission of instructor. Research and presentation of written thesis on suitable topics in women's issues. Specific topic must be approved in advance by instructor. (F, Sp, Su)

4990 Independent Study. 1 to 6 hours. Prerequisite: junior standing, permission of instructor, and an approved women's studies course. May be repeated once with change of content; maximum credit six hours. Designed to accommodate students' interest in reading and research in a specialized area of women's studies. (F, Sp, Su)

G503 Women's Studies Internship (Slashlisted with 4013). Prerequisite: graduate standing, permission of instructor, and an approved graduate women's studies course. May be repeated; maximum credit six hours. Students must relate their academic experience to women's issues by working with a non-profit organization or project. Academic credit is based on the site supervisor's report and a substantial paper relating to the internship experience. No student may earn credit for both 4013 and 5013. (F, Sp, Su)

G5120 Interdisciplinary Course in Women's Studies. 1 to 3 hours. Prerequisite: appropriate standing. May be repeated in a given department, maximum credit nine hours, provided that the course title and content is different in each instance.

G5503 Women and Development in Latin America (Slashlisted with 4503). Prerequisite: One Women's Studies graduate-level course. Explores traditional theories of development, gender and women's approaches to development, and post-colonial criticisms of development discourse. It examines the participation of women in Latin American economics, social movements, and revolutions. It also addresses issues of Latin American women and empowerment. Graduate students will be required to write an extensive research paper. (F)

G5960 Directed Reading. 1 to 6 hours. Prerequisite: six hours of women's studies courses at the graduate level. Graduate directed readings is designed for specialized research on a women's studies topic. (F, Sp, Su)

Zoology (ZOO)

The department offers courses which are slashlisted so undergraduate students may take an undergraduate 4000-level course while graduate students may take a graduate 5000-level course. The lectures in a slashlisted course are the same. However, students in the 5000-level course have additional requirements beyond those for students in the 4000-level course. These additional requirements are listed in the slashlisted course syllabus.

1005 Concepts in Biology (Crosslisted with Botany, Microbiology 1005). Prerequisite: none, but high school or college chemistry is recommended. An introduction to the life sciences, focusing on the structure and function of organisms and their relationship to the environment. Fulfills general education laboratory science requirement. Not open to students with credit for Botany 1114 or Zoology 1114. Laboratory (F, Sp) [II-LAB]

1114 Introductory Zoology. Major biological principles and concepts as illustrated in the structure, function and evolution of animals. Emphasis is on self-regulatory mechanisms, especially in the vertebrates, and their adaptive significance. (F, Sp, Su) [II-NL]

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1121 Introductory Zoology Laboratory. Prerequisite: previous completion or concurrent enrollment in 1114. Laboratory study of structure and development of organ systems. Experiments on physiological process of selected vertebrates and invertebrates. (F, Sp, Su) [II-LAB]

1203 The Age of Dinosaurs (Crosslisted with Geology 1203). Introduction to basic principles and theories in zoology (evolution, systematics, vertebrate morphology, and geology) and evolution of behavior (ethology, earth history, plate tectonics, sedimentation, and stratigraphy), focusing on the evolutionary history of Dinosaurs. May not be counted for major coursework in either department or for general education requirements. (F) [II-NL]

2011 Critical Evaluation of Biological Research. Prerequisite: 1114, 1121, and 2012 or concurrent enrollment. Emphasis will be placed on understanding the scientific method, how it applies to biological research, and implications for biomedical issues. The course will also introduce students to research in the four core areas of study in the Zoology department (physiology, ecology and systematics, animal behavior, and cellular, genetic, and developmental biology) while emphasizing three basic themes in biology (homeostasis, biological diversity, and evolution). (Sp)

2012 Foundations in the Biomedical Sciences. Prerequisite: 1114, 1121. An introduction to professional aspects of the biomedical sciences including basic biostatistics and data interpretation, critical examination of scientific literature, and discussion of case studies in biomedical ethics. Emphasis will be placed on the medical relevance of important generalizing themes in biology, including evolution, homeostasis, and biodiversity. Critical thinking and evaluation of current issues in medicine and medical research will be incorporated into class activities. (Sp)

2094 Invertebrate Zoology. Prerequisite: 1114 and 1121 or equivalent. A survey of the invertebrate animals featuring their classification, morphology, physiology, life history, ecology and evolution. Laboratory (Sp, Su)

2102 Introduction to Pharmacology (Crosslisted with Pharmacology at the Health Sciences Center). Prerequisite: 1114 or equivalent. Introduction to basic principles of pharmacology including: mechanisms of drug action, absorption, distribution, metabolism, elimination and toxicity. Students will discover how principles of chemistry can be utilized with applied biology. (Sp)

2124 Human Physiology. Prerequisite: 1114 and 1121 with a grade of C or better; a course in chemistry or physics. May not be applied for zoology major credit. Open only to majors in nursing, physical therapy, physical education, and selected fields. Function of vertebrate organ systems in homeostasis. Circulation, digestion, endocrine and nervous control, metabolism, muscle action and respiration, with emphasis on humans. Laboratory (F, Sp, Su)

2204 Comparative Vertebrate Anatomy. Prerequisite: 1114 and 1121, or equivalent. A study of the anatomy and evolutionary development of vertebrate organ systems. Representative vertebrates are studied in laboratory. Laboratory (F, Sp)

2234 Introduction to Human Anatomy. Prerequisite: 1114, 1121. An introduction to the human body using the systemic approach (integumentary, skeletal, muscular, cardiovascular, etc.). The course will use a lecture/lab format with extensive use of models, videos, and computer-assisted instruction as well as preserved cadavers. Not for zoology major credit. (F-Irreg.)

2255 Human Anatomy. Prerequisite: 1114 and 1121 with a grade of C or better, sophomore standing, permission. May not be applied for zoology major credit. Open only to majors in physical education, physical therapy, nursing and selected fields. The development and gross morphology of the human body and its systems. Laboratory dissection of human cadavers. Laboratory (F, Sp)

2404 Ecology and Environmental Quality (Crosslisted with Botany 2404). Prerequisite: sophomore standing. Study of ecological principles and their applications to human systems, study of population, air pollution, water pollution, energy issues, etc. Laboratory exercises focus on learning scientific methods of measurement of environmental quality factors. Laboratory (Sp) [II-LAB]

2913 Introduction to Quantitative Biology. Prerequisite: 1114, 1121, Mathematics 1523 or 1643 or higher, permission. The connections between basic mathematics and how biological data are organized, tested, and interpreted. Includes review of probability theory, introduction to parametric and non-parametric biostatistics, fundamentals of experimental design, and sketches of how optimality theory can be used to generate biological questions. (Sp)

fG3013 Evolution. Prerequisite: eight hours of zoology and/or botany, or five hours of zoology or botany and permission. Process of evolution. Differentiation and natural selection in populations, the nature of species, the origins of species, and evolution above the species level. (F, Sp)

3043 Sensory Functions (Crosslisted with Psychology 3043). Prerequisite: 1114 and 1121 or Psychology 1113. A comparative survey of the anatomy and physiology of visual, auditory and olfactory systems, as related to their biological significance. Topics covered include sensory functions in communication, predator avoidance and prey capture. (Irreg.)

3083 Animal Behavior (Crosslisted with Psychology 3083). Prerequisite: eight hours of zoology, including 1114 and 1121 or permission of instructor. History, philosophy and methods of ethology; causation, ontogeny, function, and evolution of behavior (ethology, evolutionary psychology, sociobiology). (F)

3092 Animal Behavior Laboratory (Crosslisted with Psychology 3092). Prerequisite: junior standing; concurrent or previous enrollment in 3083. Students will conduct both laboratory and field experiments on various aspects of animal behavior, including communication, foraging, parental care and aggression. Laboratory (F)

fG3101 Principles of Physiology Lab. Prerequisite: 3103 or concurrent enrollment. Provides students with an introduction to the methods and procedures used in physiological research. Topics covered include data acquisition, analysis and basic statistics, effects of temperature on living systems, nervous system functions, muscle mechanics and physiology, and studies of metabolic rates. In addition to hands-on laboratory experience, library projects and written research papers are used to introduce students to methods of scientific communication. Laboratory (F, Sp)

fG3103 Principles of Physiology. Prerequisite: eight hours of zoology, organic chemistry, Mathematics 1503 or equivalent, Physics 2424 or permission. Introduction to basic concepts of physiology; relation of functions of organisms to physical and chemical principles, and to the environment; discussion of experimental design, constituents of tissues, energy, growth, homeostasis, cellular and organ functions. Laboratory (Sp)

3113 Cell Biology (Crosslisted with Botany, Microbiology 3113). Prerequisite: 1114 or Botany 1114 and Chemistry 3013 or 3033. Introduction to the cell as a unit of life. A chemical and physical comparison of procaroytic and eucaryotic cells to include a discussion of cell metabolism, types of metabolic regulation, and an analysis of ultrastructure. Emphasis will be placed on the dynamic changes in metabolism and ultrastructure which occur during the life of a cell. (F, Sp)

fG3201 Animal Development Lab. Prerequisite: 3203 or concurrent enrollment. Laboratory study of the development and embryology of a variety of animals. Developmental concepts and mechanisms will be illustrated through the use of prepared materials and hands-on experiments. Laboratory (F, Sp)

fG3203 Animal Development. Prerequisite: 11 hours zoology including 1114, 1121, and 3333 or permission. Study of animal development from gamete formation through organogenesis and postembryonic phases in different animal models. Concepts and mechanisms at the tissue, cellular and molecular levels will supplement descriptive analyses of development. (Sp)

fG3333 Genetics (Crosslisted with Botany 3339). Prerequisite: eight hours of zoology or eight hours of botany, or five hours of zoology and botany and permission. Principles of inheritance at gene, chromosome, and population levels; nature of the genetic material and its involvement in the determination of structure and function. No laboratory. (F, Sp)

fG3342 Genetics Laboratory (Crosslisted with Botany 3342). Prerequisite: 3333 or concurrent enrollment, or equivalent. The demonstrations, crosses and experiments are designed to illustrate various genetic phenomena, including Mendelian laws, recombination, mutation, natural and artificial selection, and interaction of genotypic with environmental variation. The primary organism studied is Drosophila, with some use of corn, Neurospora, and others. Laboratory (F, Sp)

fG3403 Principles of Ecology. Prerequisite: eight hours of zoology, Patterns of environments and biological communities; the processes maintaining these patterns. Laboratory (Sp)

3960 Honors Reading. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will consist of topics designated by the instructor. The content will emphasize work not presented in other courses. (F, Sp, Su)

3970 Honors Seminar. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Discussion of recent and current research trends and significant developments in zoology. (Irreg.)

3980 Honors Research. 1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted honors candidate to work at a special project under the guidance of a professor in the student's field. Laboratory (F, Sp, Su)

3990 Independent Study. 1 to 3 hours. Prerequisite: one course in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)
G4034 Mammalogy. Prerequisite: eight hours of zoology, permission. Classification, distribution and natural history of mammals with emphasis on Oklahoma species. Mammals are collected and prepared for scientific collections. Field trips. Some overnight camping. Laboratory (F-even-numbered years)

G4044 Ornithology. Prerequisite: eight hours of zoology, permission. Biology of birds. Identification of birds in North America with emphasis on Oklahoma; relationships, natural history and behavior or birds. Field trips. Laboratory (Sp even-numbered years)

G4073 General Entomology. Prerequisite: eight hours of zoology. 2094 recommended. Introduction to the world of insects. Morphological and physiological adaptations; taxonomy, life histories, and methods of collection. Field trips. Laboratory (Sp odd-numbered years)

G4083 Herpetology. Prerequisite: eight hours of zoology, permission. An introduction to the study of amphibians and reptiles. Taxonomy, ecology, behavior and life histories of amphibians and reptiles, with emphasis on local forms. Field trips. Laboratory (F)

G4093 Behavioral Ecology. Prerequisite: 3083 or permission. Interrelationship of an animal’s ecology and its behavior. Optimal foraging theory, habitat selection, predator-prey adaptations, ecological constraints on sexual selection and mating systems.

G4123 Vertebrate Physiology. Prerequisite: 3103 or equivalent. Physiological function of vertebrate organ systems with emphasis on the processes of adaptation and homeostasis. Topics covered are neurosensory and motor functions, neuroendocrine function, digestion, metabolism and thermoregulation, respiration, circulation, excretion and osmoregulation. (F)

G4203 Mechanisms of Development (Slashlisted with 5203). Prerequisite: 3203, 3201, 3113, or permission. Advanced, laboratory-based course which provides an in-depth analysis of selected topics in developmental biology. Hands-on laboratory exercises, molecular biology techniques, and use of the primary literature are emphasized. No student may earn credit for both 4203 and 5203. Laboratory (F)

G4213 Neurobehavioral Development. Prerequisite: twelve hours of biology including 1114 and 1121. Specific developmental issues will be discussed from both the behavioral and biological levels of analysis. Cannot be taken for credit if 6213 has been previously taken. (Irreg.)

G4233 Cellular and Molecular Neurobiology (Slashlisted with 5223). Prerequisites: ZOO 3103, ZOO 3113, ZOO 3203, or ZOO 3333, or permission of instructor. Introduction to cellular and molecular neurobiology through reading and discussion of landmark research papers in five current areas of research. Emphasis will be on understanding modern cellular and molecular research methods and on critical interpretation of scientific data. No student may earn credit for both 4223 and 5223. (Sp).

G4244 Animal Histology. Prerequisite: 3103, 3113 or 3203 or permission. Structure and function of animal tissues with emphasis on the cellular basis of tissue and organ function. Laboratory emphasizes the identification of cells and tissue with the use of the light microscope. Laboratory (Sp)

G4413 Tropical Ecology. Prerequisite: 3013 or 3083 or 3403. Focuses on understanding major features of tropical ecosystems. Topics include: abiotic features that give rise to tropical forests, gap dynamics, tropical biodiversity, plant-animal interactions, value of tropical forests, causes and consequences of tropical deforestation. (Irreg.)

G4462 Limnology. Prerequisite: twelve hours of biological sciences, eight hours of chemistry, four hours of physics, or permission. An introduction to the biology, chemistry, physics and geology of freshwater environments, with emphasis on ecology. (F odd-numbered years)

G4472 Limnology Laboratory. Prerequisite: 4462 or concurrent enrollment, or equivalent. Experience in the use of the basic limnological methods and application of these methods to a variety of freshwater environments. Field trips. Laboratory (F odd-numbered years)

G4493 Ichthyology. Prerequisite: eight hours of zoology, Taxonomy, morphology, ecology and distribution of fishes, with emphasis on those of the region. Laboratory (Sp every third year, some Su)

4713 Introduction to Nematology (Crosslisted with Botany, Microbiology 4713; Slashlisted with 5713). Prerequisite: twelve hours of biology. Introduction to field of nematology including nematodes of importance to human and veterinary medicine, agriculture and the environment. No student may earn credit for both 4713 and 5713. (Irreg.)

G4823 Physiological Basis of Animal Behavior. Prerequisite: 3103. Covers the physiological and neurobiological processes underlying behavioral activities such as vision, hearing, olfaction, learning, communication, and reproduction. (Irreg.)

4833 Introduction to the Neurosciences (Slashlisted with 5833). Prerequisite: 3103 or permission of instructor. Basic neurobiology, neuroanatomy, sensory processing, movement, and neurobiology of behavior. No student may earn credit for both 4833 and 5833. (Irreg.)

4843 Introduction to Molecular Biology (Crosslisted with Botany, Microbiology; Slashlisted with 5843). Prerequisite: 1114 or Microbiology 3813 and 3812, or Zoology 1114 and one course in organic chemistry. Introduction to the characteristics and biological functions of nucleic acids and proteins of living cells with emphasis on nucleic acid replication, transcription, translation and regulation; also emphasis on the molecular aspects of microbial genetics—transformation, transduction and conjugation; and emphasis on molecular immunology and genetic engineering/recombinant DNA technology. No student may earn credit for both 4843 and 5843. (F)

G4853 Neurobiology of Memory (Crosslisted with Psychology 4853). Prerequisite: 3103 or Psychology 3073. Advanced seminar dealing with current research on how the nervous system responds to, and is changed by, experience. Experience is broadly defined and may include learning, maturation and/or pathology.

4863 Neural Control of Movement (Slashlisted with 5863). Prerequisite: eight hours of zoology including, 1114, 1121, or permission of instructor. Introduction to neural control of movement through reading and discussion of key original research articles from the 19th century to the present. Topics include localization of function, sensory vs. central contributions, roles of single neurons, effects of neuromodulators, and motor learning. No student may earn credit for both 4863 and 5863. (F)

G4903 Computers and Programming in Biology. Prerequisite: twenty-four hours of biology or permission. An introduction to the use of the zoology department computer facilities: using statistics packages to analyze data, text editors and formatters to write papers and reports, graphics terminal for plotting, and beginning Fortran and Basic for programming on the IBM 3081 and the Apple II microcomputer. (Sp)

G4913 Quantitative Biology. Prerequisite: twelve hours of biological sciences; a course in statistics recommended. Examination of problems in deductive probability and inductive statistics. No laboratory. (F)

4961 Undergraduate Seminar. Prerequisite: eighteen hours of zoology or permission of instructor. May be repeated; maximum credit two hours. Survey of current research programs in environmental biology, cell biology, physiology, animal behavior and other fields presented in weekly public seminars by visiting scholars and local experts in animal biology. (F, Sp)

4970 Special Topics in Zoology. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor, department. May be repeated with change of topic; maximum credit nine hours. Seminar or special topic course; may include laboratory or field work. (F, Sp, Su)

4983 Senior Seminar. Prerequisite: twelve hours of zoology, senior standing. An interdisciplinary approach will be used to synthesize ideas from the major fields of zoology. Readings and discussion will focus on contemporary social, ethical and economic issues. (F, Sp, V)

4990 Independent Study. 1 to 3 hours. Prerequisite: three courses in general area to be studied; permission of instructor and department. May be repeated; maximum credit six hours. Contracted independent study for topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (F, Sp, Su)

G5003 Zoogeography. Prerequisite: twelve hours of zoology or permission. The determinants of animal distributions over the earth. Topics include continental drift, dispersal, vicariance biogeography, biogeographical provinces, mass extinctions, island biogeography, distribution and abundance. No laboratory. (F odd-numbered years)

G5093 Evolutionary Ecology. Prerequisite: twelve hours of biology, including 3013, or permission. Study of ecological forces important in evolutionary change in plants and animals. Evolution of sex, breeding systems, life history, speciation, coevolution of animal/plant interactions. (F even-numbered years)

G5153 Endocrine Physiology. Prerequisite: 3103; an intermediate physiology course is strongly recommended. The embryology, anatomy and physiology of hormonal secretions of the endocrine glands are discussed. Each hormone is considered in terms of its chemistry; biosynthesis and degradation; biochemical and physiological effects; interrelations with other endocrine glands.Vertebrates and invertebrates are compared. No laboratory. (F)

G5203 Mechanisms of Development (Slashlisted with 4203). Prerequisite: 3203, 3201, 3113, or permission. Advanced, laboratory-based course which provides an in-depth analysis of selected topics in developmental biology. Hands-on laboratory exercises, molecular biology techniques, and use of the primary literature are emphasized. No student may earn credit for both 4203 and 5203. Laboratory (F)

G5204 Vertebrate Paleobiology (Crosslisted with Geology 5204; Slashlisted with 4204). Prerequisite: Zoology 1114, 1121, 2204; or permission. Systematics, relationships, zoogeography and evolutionary morphology of the
major groups of vertebrates. Field trips. No student may earn credit for both 4204 and 5204. Laboratory (Sp)

5223 Cellular and Molecular Neurobiology (Slashlisted with 4223.)
Prerequisites: ZOO 3103, ZOO 3113, ZOO 3203, or ZOO 3333, or permission of instructor. Introduction to cellular and molecular neurobiology through reading and discussion of landmark research papers in five current areas of research. Students will work on understanding cellular and molecular research methods and on critical interpretation of scientific data. No student may earn credit for both 4223 and 5223. (Sp)

G5293 Cytology Ultrastructure (Crosslisted with Botany, Microbiology 5293).
Prerequisite: twelve hours of biology. A descriptive survey of bacterial, plant and animal cells. Emphasis will be given to the ultrastructural morphology of cellular organelles and their functional significance. (F)

G5333 Ecological Genetics.
Prerequisite: 3333 required; 3013 recommended. History of population and ecological genetics; genetic systems; emphasis on experimental aspects of population genetics and measurement of selection and levels of genetic variation in different ecological situations; development of quantitative character(s); genetic load; drift; enzyme variation; chromosome variation. (Irreg.)

G5343 Developmental Genetics.
Prerequisite: 3333. Covers the regulatory control of development in simple viral and bacterial organisms, but emphasizes eukaryotic development and genetic organization. Topics will include DNA and chromosome structure, intron processing, nuclear-cytoplasmic interaction, pattern formation and aging. (Sp)

G5364 Transmission Electron Microscopy (Crosslisted with Botany, Microbiology 5364).
Prerequisite: permission. Introduction to the theory of transmission electron microscopy and practical instruction in specimen preparation, ultramicrotomy, instrument operation, photography and quantitative methods. Laboratory (F)

G5374 Scanning Electron Microscopy (Crosslisted with Botany, Chemical Engineering, Microbiology 5374).
Prerequisite: basic chemistry; basic physics; demonstrated need; permission of instructor. Principles of scanning electron microscopy combined with training in the operation of the SEM and ancillary equipment. Students will be certified in the operation of all equipment. Sample preparation on a variety of samples and darkroom procedures will be performed. Independent project with oral report and poster required. Laboratory

Prerequisite: 3403, 4913 or equivalent. History, demography, environmental factors, density-dependent factors, genetics and population ecology. theories of population and community organization (ideas of Elton, Williams, Preston, MacArthur, Smith, Hainest, and Soulbrookin). No laboratory. (Sp even-numbered years)

G5413 Community Ecology.
Prerequisite: 3403 and Mathematics 1743 or 1823, or permission. Theoretical and empirical study of the structure and organization of natural communities. Topics include competition, predation, disturbance, abiotic gradients, species equilibria.

G5443 Physiological Ecology.
Prerequisite: twelve hours of biology, including a course in physiology and/or in ecology, or permission. A study of the physiological adjustments made by animals to changes in their external environment. (Sp)

G5453 Advanced Ecology and Evolutionary Biology (Crosslisted with Botany and Microbiology).
Prerequisite: general ecology. Required for students in the ecology and evolutionary biology doctoral program. An introduction to current research opportunities and research programs in ecology and evolutionary biology at the University of Oklahoma. Specific topics and lectures will vary from week to week to give students a broad overview of ongoing research projects. (F)

G5471 Seminar in Ecology and Evolutionary Biology (Crosslisted with Botany and Microbiology).
Prerequisite: graduate standing. Two semesters of enrollment are required for students in the ecology and evolutionary biology doctoral program. An intensive, student-based seminar in which students present both proposals and ongoing progress reports on doctoral level research projects in ecology and evolutionary biology. (F, Sp)

G5483 Fish Ecology.
Prerequisite: twelve hours of zoology, including 3403, or permission. Emphasizes fundamental ecology of freshwater and marine fishes worldwide. Focuses on the historical literature and development of fish ecology, as well as modern comparative and experimental approaches in distributional ecology, fish community structure/function, abiotic and biotic interactions affecting fishes, and direct and indirect effects of fishes in ecosystems. (Sp each third year, Norman; Su on demand, Biological Station)

G5494 Biology of Fishes.
Prerequisite: twelve hours of zoology, permission; 4462 recommended. Natural history and ecology of freshwater fishes. Field trips. Laboratory (F odd-numbered years)

G5503 An Introduction to Fish Culture.
Prerequisite: twelve hours of biology, permission. Principles of warm water fish culture, practical culture and field trips. Laboratory (F even-numbered years)

G5693 Fishery Management.
Prerequisite: 4462, 5494 or permission of instructor. Relationship of ecological principals to the management of fisheries. Influence of physico-chemical factors in the environment will be emphasized. A combination of field and laboratory exercises will relate basic fishery biology techniques to applications in management. (F, odd years)

G5703 Numerical Systematics.
Prerequisite: permission of instructor. A consideration of the philosophical basis of systematic procedures in biology and the numerical methods developed to deal with systematic and taxonomic problems. Phenetic, cladistic and phyletic techniques and philosophies will be explored and class members will conduct projects designed to give them practical experience in analyzing numerically, data from groups of organisms of special interest to them. (Sp odd-numbered years)

G5713 Introduction to Nematology (Crosslisted with Botany, Microbiology 5713; Slashlisted with 4713). Prerequisite: twelve hours of biology. Introduction to the characteristics and biological functions of nucleic acids and proteins in living cells with emphasis on nucleic acid replication, transcription, translation and regulation; also emphasis on the molecular aspects of microbial genes—transformation, transduction and conjugation; and emphasis on molecular immunology and genetic engineering/recombinant DNA technology. No student may earn credit for both 4843 and 5843. (F)

G5843 Introduction to Molecular Biology (Crosslisted with Botany, Microbiology, Slashlisted with 4843).
Prerequisite: 1114 or Microbiology 3813 and 3812, or Zoology 1114 and one course in organic chemistry. Introduction to cellular and molecular biology. Emphasis on molecular techniques to applications in management. (F, odd years)

G5880 Graduate Project.
2 to 4 hours. Prerequisite: graduate standing in zoology. For students in the nonthesis M.S. program in fisheries biology. Students will undertake development, under the project committee’s direction, of a research project. (F, Sp, Su)

G5910 Problems in Natural Science (Crosslisted with Botany, Microbiology, 5910), 1 to 2 hours. Prerequisite: admission to candidacy for the degree of Master of Natural Science. (F, Sp, Su)

5913 Bioinformatics: Programming.
Prerequisites: 5903, C or C++ Programming ability (CS 2413, or equivalent), and permission of instructor. This course is designed to provide programming skills needed to perform large-scale genomic analysis in research and professional settings. The Perl programming language will be taught by introducing features of the Perl programming language in the context of and with applications to bioinformatics. (Sp)

G5970 Special Topics in Zoology.
1 to 3 hours. Prerequisite: three courses in general area to be studied or permission of instructor. May be repeated with change of topic; maximum credit twelve hours. Special topic course; may include laboratory or field work. (Sp, Su)

G5980 Research for Master’s Thesis.
Variable enrollment, two to nine hours; maximum credit applicable toward degree, six hours. Laboratory (F, Sp, Su)

G5990 Independent Study.
1 to 6 hours. Prerequisite: permission. May be repeated in different fields; maximum credit twelve hours. Directed readings. Written report required. No laboratory. (F, Sp, Su)

G6003 Ecological Modeling (Crosslisted with Botany and Microbiology 6003).
Prerequisite: one computer course, one course in ecology, or permission of instructor. Trains students to use modeling tools in their research and to gain greater ability to understand, appreciate, and criticize modeling work. Students will learn general procedure and principles with case studies of successful models in ecology and participate in course projects to gain hands-on experience in model development. (Irreg.)

G6012 Professional Aspects of Biology.
Prerequisite: graduate standing in biological sciences. Scientific writing, the process of publication, literature retrieval and bibliographical procedures, research grant proposals, professional job placement, scientific organization, university and college organization and
government, scientific photography and illustrations, social responsibilities and professional ethics for the biologist. (F)

G6083 Evolution of Social Behavior. Prerequisite: 3083 and permission of instructor. History of sociobiological concepts; relationships of ecology, ethology, and evolution. (F even-numbered years)

G6152 Methods in Endocrinology. Prerequisite: 5153 or concurrent enrollment in 5153, permission. Experiments are designed to illustrate the modern as well as classical techniques and instrumentations used in endocrinology. Students are responsible for post-operative care and treatment of animals. An individual problem is chosen by each student. **Laboratory** (Sp)

G6213 Developmental Behavioral Neuroscience. Prerequisite: graduate standing or permission of instructor. Discussion of specific developmental issues from both the behavioral and neurobiological perspectives of analysis. Can not be taken for credit if 4213 has been previously taken. (Irreg.)

G6970 Seminar. 1 to 4 hours. Prerequisite: fifteen hours of zoology, permission. May be repeated; maximum credit twelve hours; no more than six hours may be in any one field. No laboratory. (F, Sp, Su)

G6980 Research for Doctor's Dissertation. (F, Sp, Su)
Faculty of the University of Oklahoma

The date following the title is the date of the beginning of service with the University; the date in parentheses is the date of the appointment to the present academic rank; the last date is the date of appointment to the present administrative title. Membership in the Graduate Faculty is designated by an asterisk following the faculty members' names.


BURNS, THOMAS, B.S., 1976, Maryland; M.S., 1982, Delaware; Ph.D., 1990, Maryland. Associate Professor of Sociology, (2001).


BYSTROM, KEITH N., B.S., 1972, Nebraska; J.D., 1975, Georgetown. Associate Dean; Professor of Law; Director, Clinical Legal Education, 1979, (1985), 1996.


CONWAY, TYRRELL. * B.S., 1979, Ph.D., 1984, Oklahoma State. Associate Professor of Microbiology; Co-Director, OU Advanced Center for Genome Technology, (1999), 1999.


COOK, PAUL. * B.A., 1972, Our Lady of the Lake College; Ph.D., 1976, California at Riverside. Grayce B. Kerr Professor of Chemistry and Biochemistry, (1996).


CORTINAS, JOHN. B.S., 1987, Metropolitan State; Ph.D., 1992, Georgia Institute of Technology. Adjunct Assistant Professor of Meteorology, (1998).


Professor; Chair, Department of Chemistry and Biochemistry, 1967, (1983, 1998), 1981.


KALNAY, EUGENIA, * M.S., University of Buenos Aires; Ph.D., 1971, Massachusetts Institute of Technology. Adjunct Professor of Meteorology, (2000).


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KHAN, MASOOD ALAM, * B.S., 1965, University of Karachi, Pakistan; M.S., 1972, Ph.D., 1976, University of Victoria, B.C. Assistant Professor of Chemistry and Biochemistry; Staff Crystallographer, (1986), 1986.


KUMIN, HILLEL J.,* B.S., 1962, Southern Methodist; M.A., 1964, Texas; Ph.D., 1968, Case Institute of Technology. Williams Professor of Industrial Engineering; Associate Professor of Business Administration, Professor of Industrial Engineering, 1968, (2000).


MENDOZA, JORGE L.,* B.A., 1970, Illinois; M.S., 1972, Ph.D., 1974, Oklahoma. Professor of Psychology; Chair, Department of Psychology, (1990), 2003.


MISH, KYRAN.* B.S., 1981, M.S., 1985, Ph.D., 1987, California. Professor of Civil Engineering and Environmental Science; Director, Fears Structural Engineering Laboratory, (2002).


MOORE, PAUL.* Artist in Residence, 1997.


MORGAN, CAROLYN.* B.A., 1960, M.S., 1965, Oklahoma State; Ph.D., 1973, Oklahoma. Associate Professor of Sociology and Women’s Studies; Associate Professor of Human Relations; Associate Dean, Honors College, 1975, (1987), 1997.


NELSON, DONNA J.* B.S., 1974, Oklahoma; Ph.D., 1979, Texas. Associate Professor of Chemistry and Biochemistry, 1983 (1989).


RASHED, TAREK,* B.S., 1993, Assiut, Egypt; M.S., 1998, Manchester Institute of Science, United Kingdom; Ph.D., 2003, California at Santa Barbara and San Diego State. Assistant Professor of Geography, (2003).


ROEGIERS, JEAN-CLAUDE,* Ingénieur Civil des Constructions, 1969, Université de Lige, Belgium; Ph.D., 1974, Minnesota. PE. The McCasland Chair and Professor of Petroleum and Geological Engineering, (1988).


RYBENKOV, VALENTIN V.,* M.S., 1989, Ph.D., 1992, Moscow Institute of Physics and Technology. Assistant Professor of Chemistry and Biochemistry, (2000).


SHAFFER-RAY, NEIL,* B.S., 1986, Massachusetts Institute of Technology; Ph.D., 1990, Columbia. Associate Professor of Physics and Astronomy.


UNO, GORDON E.,* B.A., 1973, Colorado; Ph.D., 1979, California at Berkeley. David Ross Boyd Professor of Botany and Microbiology; Chair, Department of Botany and Microbiology, 1979, (1997), 2001.


XUE, MING, B.S., 1984, Nanjing University; Ph.D., 1989, University of Reading. Assistant Professor of Meteorology, 1992, (1999).

YIP, WAI TAK,* B.S., 1989, University of Hong Kong; Ph.D., 1996, Chicago. Assistant Professor of Chemistry and Biochemistry, (2000).


YOUNG, ROGER A.* B.S., 1992, National Central University, Taiwan; Ph.D., 2000, Nebraska at Lincoln. Assistant Professor of Electrical and Computer Engineering, (2002).


ZHU, MEIJUN,* B.S., 1988, Peking University; M.S., 1992, University of Science & Technology of China; Ph.D., 1996, Rutgers. Assistant Professor of Math, (1999).


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