Dedman College
General Information

Dedman College is the heart of SMU. It is home to the humanities, social and behavioral sciences, mathematics, and natural sciences – disciplines central to the traditions of higher education.

In 1915 when SMU opened the doors of Dallas Hall to welcome the first class of students, those students matriculated into the College of Arts and Sciences, the academic unit that would eventually become Dedman College. In 1963, with the formulation of the Master Plan, the college became the School of Humanities and Sciences in recognition of its role in the specialized education of students in the liberal arts. From 1963 until 1980, the basic liberal arts education for all SMU students was provided by University College, an independent, nondegree granting academic unit.

The School of Humanities and Sciences was merged in 1980 with University College to create a new entity central to the enterprise of undergraduate education. It would not only provide the basic foundations in liberal arts education to all SMU students through the General Education Curriculum but also serve as a center for the integration of specialized education in the humanities, social sciences and natural sciences. As an indication of its centrality to the educational process, the name was changed from school to college, emphasizing that it is a community of students and teachers, whose life together, no matter how diversified and specialized, is unified by the implicit and explicit values derived from a liberal arts education. In 1981, the newly formed college was endowed by the late Robert H. Dedman, Sr., and his wife, Nancy McMillan Dedman, and became Dedman College.

In addition to being the oldest academic unit at SMU, Dedman College is also the largest. In 2009, some 1,400 undergraduate students majored in Dedman College programs, and the school enrolled just under 350 graduate students. More than 270 full-time faculty are based in the college. Undergraduate students in Dedman College may major in any one of 50 programs and choose from 51 minor programs. The college offers 18 graduate programs leading to a Master's degree and 13 programs leading to a Ph.D. degree. Its 16 academic departments include: Anthropology, Biological Sciences, Chemistry, Earth Sciences, Economics, English, Foreign Languages and Literatures, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Religious Studies, Sociology, and Statistical Science.

ACADEMIC PROGRAMS OF STUDY

Majors in Dedman College include:

Anthropology
Biochemistry
Biological Sciences
Chemistry
  Environmental Chemistry
Earth Sciences
  Resource Geology
  Geology
  Geophysics
Economics
  Finance Applications
  Systems Analysis
English
  Creative Writing
Environmental Science
Environmental Studies
Ethnic Studies
  African/African American Studies
  Mexican-American Studies
Foreign Languages and Literatures
  Foreign Languages – French
  Foreign Languages – German
  Foreign Languages – Italian
  Foreign Languages – Spanish
  French
  German
  Italian Area Studies
  Spanish
History
Humanities (Evening Program)
Individualized Studies in the Liberal Arts
International Studies
Latin American and Iberian Studies
Markets and Culture
Mathematics
Medieval Studies
Philosophy
Physics
Political Science
Psychology
Public Policy
Religious Studies
Social Sciences (Evening Program)
Sociology
Statistical Science

Minors available include:

- Anthropology
  - Archaeological
  - Biomedical
  - Cultural
- Biological Sciences
- Chemistry
- Classical Studies
- (Earth Sciences)
  - Geology
  - Environmental Earth Sciences
- Economics
  - Econometrics
  - Economic Growth and Development
  - Economics of Decision-Making
  - Economics of Industrial Organization
  - International Economics
  - Labor Economics
  - Monetary Economics
  - Public Economics
- English
- (Foreign Languages and Literatures)
  - Chinese
  - French
  - German
  - Italian
  - Italian Area Studies
  - Japanese
  - Latin
  - Russian Area Studies
  - Spanish
- (Ethnic Studies)
  - African-American Studies
  - Mexican-American Studies
- History
- Human Rights
- International Studies
  - Asian Studies
  - European Studies
  - Latin American and Iberian Studies
- Mathematics
- Medieval Studies
- Natural Sciences
- Philosophy
  - Ethics
- Physics
- Political Science
  - American Politics
  - Comparative Politics
  - International Relations
  - Political Theory
- Psychology
- Religious Studies
- Sociology
- Statistical Science
- Women's and Gender Studies

Specific degree requirements and additional information for any of these programs can be found in the departmental sections of this catalog.

Dedman College students may also complete minors in other schools on campus, including the Cox School of Business, the Meadows School of the Arts and the Lyle School of Engineering. Interested students should contact the Office of the Dean in those schools concerning specific requirements.

HONORS PROGRAMS

During their first and second years at SMU, a number of Dedman College students participate in the University Honors Program, described in the Academic Programs section of this catalog, and subsequently graduate with "Honors in the Liberal Arts."

DEPARTMENTAL DISTINCTION

Students participating in the University Honors Program are encouraged to join the Departmental Distinction Program to earn the designation of "Liberal Arts Honors With Departmental Distinction" on their transcripts.

During their junior and senior years, students may participate in the honors courses and seminars offered within their major departments. A variety of internships and research programs are also offered in some departments to provide practical exposure and experience within the disciplines. More specific information on the programs in each department can be found in the Courses of Study in Dedman College section.

Successful completion of the departmental honors program earns the student "Departmental Distinction."

PROGRAMS FOR PREPROFESSIONAL STUDENTS

Before arranging a program in Dedman College, the preprofessional student should become familiar with the entrance requirements of the particular professional school that the student intends to enter. Requirements differ to some extent even within the same profession, and the student will find that some schools require that specific courses be included in the preprofessional training.

Prelaw

To be a prelaw student at SMU does not require any particular major or academic program. Prelaw seniors who go on to law school may have majors in all four undergraduate schools. Success in law school requires skills in critical analysis, logical reasoning, and written and oral expression. Students should keep in mind that the spoken and written word are the principal tools of the legal profession. Students who intend to study law must develop an excellent knowledge and grasp of the English language as well as a clear and concise style of expression.

A sound liberal arts education is valuable for prelaw students. Courses in political science, history, economics, statistics and anthropology help a student understand the structure of society and the problems of social ordering with which the law is concerned.

The study of philosophy, literature, fine arts, foreign languages and other cultures imparts familiarity with traditions of universal thought and trends that have influenced or tend to influence legal developments nationally and internationally. The examination of human behavior in sociology and psychology will aid the prospective law student in understanding the types and effects of human behavior with which law is involved.

The systematic ordering of abstractions and ideas acquired by studying logic and the sciences contributes much to a prelaw student's capacity to analyze, understand and rationally organize his or her thoughts. And, in some fields of law practice, it is useful for a student to have a fundamental knowledge of technology, engineering, computers and accounting.

Admission to Law Schools

Candidates for admission to an American Bar Association-approved school of law must take the Law School Admission Test administered by the national Law School Admission Council. Candidates are urged to take the test on the June, October or December testing dates of the fall term in which they apply to law school.

Except in very rare circumstances, all approved law schools require that an applicant for admission has been granted a Bachelor's degree from an accredited college or university.

For additional prelaw information, as well as assistance in the application process, undergraduate students may consult the prelaw services in the Dedman College Advising Center.

Admission to Dedman School of Law

Admission to Dedman School of Law is by selection based upon the academic record of the applicant, the applicant's Law School Admission Test score and other available data. For more information, contact the Admissions Officer, Dedman School of Law, PO Box 750110, Dallas TX 75275-0110, or visit www.law.smu.edu/admissions.

Premedical/Dental

Medical and dental schools seek students who have demonstrated strength in their major – any major of the student's choosing – and in the sciences. There is no preferred major. Honors work is appropriate.

Most medical and dental schools require the following coursework for entry. These courses should be completed by the end of the junior year: English, six hours; mathematics (including calculus), six hours; biology, eight to 14 hours (14 for Texas medical schools); chemistry, 16 hours; and physics, eight hours. In addition, some schools require biochemistry. This coursework may be done as part of

a major or minor in the sciences or as electives in a nonscience major or minor. Some will apply toward SMU's general education curriculum requirements.

Candidates for admission to medical school must take the Medical College Admission Test; the test should be taken in the spring of the junior year. Candidates for dental school should take the Dental Admission Test, also in the spring of the junior year. All students intending to apply to medical or dental schools should contact the Health Professions Advising Office in the Dedman College Advising Center.

UNDERGRADUATE INTERNSHIP PROGRAM

The Dedman College Undergraduate Internship Program helps students begin to prepare for employment. Internships are designed to demonstrate and reinforce the valuable and highly marketable skills that our students develop.

The following guidelines apply:

- Credit-bearing internships are supervised by faculty, department or program.*
- Dedman Internship Program Orientation and Standardized University Release of Liability for Education Internship are required.
- Internships are based on a written learning contract signed by the student and faculty supervisor and approved by the department chair or director of undergraduate studies. (Students and site supervisors will complete evaluations of the experience. These evaluations will not be considered in determination of the grade.)
- Internships require a written component based on and reflective of the experiential dimension.
- Internships are available only through approved internship courses.
- Internship credit may range from one to three hours.
- The maximum total internship credit that may be applied toward a degree is three hours.

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* *Noncredit-bearing internships may either be paid or unpaid and are without faculty, department or program supervision. Internship orientation is strongly suggested. A University Release of Liability is required.*

TEACHER EDUCATION

The University offers a program of studies in teacher education and recommends candidates for certification by the State Board of Educator Certification. The recommendation is based on a candidate's successful completion of 24 hours in education (EDU) courses and six hours of student teaching. In addition, candidates must pass the Texas Examinations of Educator Standards. Education courses are designed to include all standards tested on the TExES and to prepare students for the requirements including a major. (Prospective secondary teachers must have majors in appropriate teaching fields.) For more information, contact the Department of Teaching and Learning at 214-768-2346. For a general description of the program in teacher education, see the Annette Caldwell Simmons School of Education and Human Development section of this catalog.

MULTIPLE MAJORS AND MINORS

Students are encouraged to broaden their education by taking full advantage of the University's diverse undergraduate programs. Although only one major is required for graduation, with careful planning students may complete two or more majors and/or multiple minors within the prescribed total hours.

Students may also qualify for baccalaureate degrees from two schools in the University. Some characteristic pairings are: English or political science in Dedman College and journalism in Meadows School of the Arts; physics or mathematics in Dedman College and electrical engineering in the Lyle School of Engineering; and foreign language in Dedman College and a major or minor in the Cox School of Business. Since all requirements for both degrees must be met, students should confer with advisers in both schools at an early date in order to prepare a proposed plan of study.

Students are individually responsible for knowing and complying with all regulations and requirements that may apply to their respective programs.

TRANSFER COURSES FROM OTHER INSTITUTIONS

Once matriculated at SMU, students wishing to enroll for and transfer in courses offered at other institutions in subject areas within the Dedman College curriculum must receive prior approval from their adviser, the chair of the SMU department that normally offers the course, the dean of Dedman College and their dean of record. A maximum of 30 credit hours of post-matriculation transfer work may be approved. Approval may be denied for educational reasons. Post-matriculation work must be completed at accredited, four-year institutions. Post-matriculation transfer from nonaccredited or two-year institutions will not be approved.

ADMISSION

All incoming first-year students to the University are admitted to Dedman College. See the Admission to the University section of this catalog for requirements. Students wishing to pursue majors in the humanities or in the social or natural sciences or in various multidisciplinary programs remain in Dedman College for their undergraduate education. Specific degree requirements and additional information for any of these programs can be found in the departmental sections of this catalog. Admission is open to qualified undergraduate and graduate applicants without regard to race, color, religion, national origin, sex, age, disability, veteran status or sexual orientation.

Admission From Other Schools Within SMU

An individual enrolled in another school of the University may apply to the dean of the school in which the student is currently enrolled for permission to transfer into a degree-granting program in Dedman College. A student who has achieved a cumulative GPA of 2.0 on all SMU work attempted will normally be admitted to candidacy for a degree in Dedman College. Additional requirements for programs with subset curriculums may exist. Consult the catalog section and/or the department for more information.

Readmission of Former Students

If three or more years have elapsed since the last enrollment at SMU, the student must meet any new requirements and is subject to any new regulations that have been instituted in the interval.

Degree Requirements

Dedman College offers four undergraduate degrees: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Social Sciences and the Bachelor of Humanities. For the degree available in a specific area of study, consult the individual programs of study outlined in the following sections of this catalog.

THE MAJOR

A candidate for a degree must complete the requirements for a major in one of the departments or interdisciplinary programs of the college. The major requirements of each department and program are stated at the beginning of the section describing the courses offered in that department or area. The applicable requirements of the major are those in effect during the academic year in which the major is declared, or those of a subsequent academic year. Coursework counting toward a major must include at least 18 advanced hours in approved SMU credit courses and may not be transferred or taken pass/fail. All advanced courses required for the major must be passed with a grade of *C-* or better. In addition, Dedman College requires a cumulative GPA of 2.0 for all courses attempted for completion of a major or minor. All courses attempted that could count toward the major/minor are included in determining the major/minor GPA. Majors must be officially declared (or changed) through the Office of the Dean.

THE MINOR

A candidate for a degree may also complete the requirements of a minor, either in Dedman College or in one of the other undergraduate schools of the University. Advisers in the minor programs assist students in selecting a minimum of 15 hours, including at least nine at the advanced level, suitable for meeting requirements for a minor. Coursework counting toward a minor may not be taken pass/fail. All advanced courses required for the minor must be passed with a grade of *C-* or better. At least half of the advanced hours required by Dedman minors must be completed in approved SMU credit courses and may not be transferred or taken pass/fail. In addition, Dedman College requires a cumulative GPA of 2.0 for all courses attempted for completion of a major or minor. All courses attempted that could count toward the major/minor are included in determining the major/minor GPA. Minors must be officially declared (or changed) through the Office of the Dean.

GENERAL REQUIREMENTS

Student Responsibility for Completion of Degree Plan

Students are required to schedule a degree-plan conference (New Majors Meeting) in the Dedman College Advising Center at the time of their acceptance into a major in the college. Detailed information concerning academic regulations and degree requirements will be provided at that time. Students are individually responsible for knowing and complying with all regulations and requirements that may apply to their respective programs.

Application for a Degree

Students must submit to the Office of the Dean a formal application for graduation by August 27 for December 2010 graduation, by January 24 for May 2011 graduation or by June 3 for August 2011 graduation.

Credits

A candidate for a degree in Dedman College must have:

- A minimum total of 122 term hours of credit, including the requirements for general education and the requirements for a major.
- A minimum total of 42 advanced hours (3000 level or above).

- A maximum total of 2 hours of Wellness.
- A maximum total of 3 hours of internship credit.

Grades

A candidate for a degree in Dedman College must attain:

- A minimum cumulative GPA of 2.0 on all work attempted through enrollment at SMU.
- A minimum cumulative GPA of 2.0 on all equivalent work attempted elsewhere, if any.
- A minimum grade of *C-* on any advanced course offered in fulfillment of major or minor requirements.
- A minimum cumulative GPA of 2.0 for all work attempted for completion of major or minor requirements.
- No more than 12 hours with a grade of *P* (Pass).

Credit Requirement

As minimum requirements, a candidate for a degree in Dedman College must take the following hours as SMU credit (That is, they must be earned in SMU courses or SMU-approved international programs.):

- A total of 60 hours.
- A total of 18 hours of advanced work in the major.
- A total that is equivalent to at least 50 percent of the advanced work required in any minor program selected. Departmental requirements may exceed this minimum.

Requirements for Obtaining Two Degrees Simultaneously

A student who selects two majors in Dedman College that lead to different degrees (B.A. and B.S.) may receive both degrees simultaneously by completing all requirements in each major, along with general requirements for a degree in Dedman College. However, a student may not be awarded more than one baccalaureate degree from the same department.

A student may pursue a program of study leading to a degree from Dedman College along with a degree from the Cox School of Business, Meadows School of the Arts or Lyle School of Engineering. The student must obtain approval for the proposed program of study from the deans of the schools involved.

Graduation Honors

There are three classes of graduation honors: summa cum laude, magna cum laude and cum laude. Eligibility for graduation honors will be based upon a student's total academic program. All academic work attempted at other colleges or universities that is equivalent to SMU work will be included in the calculation of the GPA. For students who have transferred to SMU, two grade-point averages will be calculated: for all work attempted and for work completed through enrollment at SMU. Honors will be based on the lower of the two averages.

Departmental Distinction

By successfully completing a special program of study in the major department, a student may be awarded departmental distinction regardless of eligibility for graduation honors. The program of study normally will be undertaken in both the junior and senior years. This award is conferred by the major department on the basis of certain criteria prescribed by the department, but all programs include the minimum requirements of independent reading and research beyond the regular departmental requirements for a degree and the completion of a senior paper or research report. Further information may be obtained from the individual departments.

For more information about Dedman College programs and faculty, visit www.smu.edu/dedman.aspx.

AEROSPACE STUDIES: AIR FORCE ROTC

www.unt.edu/afrotc

Air Force ROTC courses are not offered on the SMU campus. Students at SMU who wish to earn appointments as commissioned officers in the U.S. Air Force may participate in the Air Force general military course and professional officer course through the University of North Texas in Denton. The Air Force ROTC program develops skills and provides education vital to the career officer. Active-duty Air Force personnel provide all instruction and program administration. Students who participate in the UNT Air Force ROTC program are responsible for their own travel and other physical arrangements.

The program is open to all students. First-year students may enroll in the four-year program, and students with at least two undergraduate or graduate academic years remaining may apply for the two- or three-year program. Scholarships, available to qualified students, provide full tuition, fees, textbook allowance and a monthly tax-free $100 subsistence allowance. National competition is based on SAT or ACT test results, Air Force Officer Qualifying Test results or college academic records, and extracurricular and athletic activities. Uniforms and textbooks for AFROTC courses are issued at no cost to cadets.

Students register for the Aerospace Studies courses at the same time and in the same manner as they register for other SMU courses. The AFROTC courses are fully accredited and may be taken as electives in most academic majors. Successful completion of degree requirements and the AFROTC program can lead to a commission as a second lieutenant in the United States Air Force. Students with at least six months' active military service may be granted waivers on a portion of the general military course.

For more information, contact: AFROTC, University of North Texas, PO Box 305400, Denton TX 76203; 940-565-2074; det835@unt.edu.

The Courses (AERO)

1103 (fall), 1104 (spring). Foundations of the United States Air Force. A survey course designed to introduce students to the USAF and the AFROTC. Featured topics include mission and organization of the Air Force, officership and professionalism, military customs and courtesies, USAF officer opportunities, and an introduction to communication skills.

2103 (fall), 2104 (spring). The Evolution of USAF Air and Space Power. A course designed to examine general aspects of air and space power through a historical perspective. Using this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies) and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. In addition, students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders, and will continue to develop their communication skills.

2100, 2200, 2300, 2400, 4100, 4200, 4300, 4400. Cooperative Education in Aerospace Studies. Supervised work in a job directly related to the student's major, professional field of study or career objective. 1–3 hours each week. *Prerequisites:* Permission of division chair; student must meet employer's requirements. May be repeated for credit.

3431 (fall), 3432 (spring). Air Force Leadership. A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.

4431 (fall), 4432 (spring). National Security Forces in Contemporary American Society/ Preparation for Active Duty. Examines the national security process, regional studies, advanced leadership ethics and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.

ANTHROPOLOGY

www.smu.edu/anthro

Professor David Meltzer, **Department Chair**

Professors: Caroline Brettell, Robert Van Kemper, David Meltzer, Ben Wallace, Ronald Wetherington. **Associate Professors:** Michael Adler, R. Alan Covey, Victoria Lockwood, Carolyn Smith-Morris, David Wilson. **Assistant Professors:** Sunday Eiselt, Brigette Kovacevich, Nia Parson, Christopher Roos, Sarah Willen. **Adjunct Lecturer:** John Phinney. ***Emeritus* Professors:** Lewis Binford, Harold Hietala, Anthony E. Marks, Ladislav Novak, Garth Sampson, Fred Wendorf.

Anthropology is divided into four subfields: I) archaeology, II) cultural/social anthropology, III) anthropological linguistics and IV) physical anthropology. In addition to providing the basis for careers in the subdisciplines, anthropology provides a background for professional careers in teaching, research, international affairs, medicine, business or law. A grade of *C*- or better must be earned in all courses taken in fulfillment of the requirements for the anthropology major. Students majoring in anthropology must achieve a minimum 2.0 GPA in anthropology and are urged to consult their departmental adviser periodically to review their progress.

For Undergraduate Students

Requirements for the B.A. Degree. Intended for students who want general training in anthropology within a liberal arts curriculum. A total of 30 hours of anthropology are required, of which 21 must be advanced. Of the 30 hours, ANTH 2301 is required. However, all candidates for the B.A. major must take at least three hours in each subfield of anthropology (i.e., archaeology, cultural/social anthropology, anthropological linguistics and physical anthropology).

Requirements for the B.S. Degree. Intended for students who want more specialized training in anthropology, it provides a strong foundation for students intending to pursue a graduate degree. A total of 36 hours of anthropology are required, of which 24 must be advanced. Of the 36 hours, the following courses are required: ANTH 2301, 2315, 2363, and 5334 or 5335; six hours of fieldwork-related study (Option 1: ANTH 5381 or 5382, and 4333 or 5681; *or* Option 2: ANTH 5344, and SOCI 3311 or SOCI 3312); one of the following: ANTH 3361 or 5359; and three hours of independent study (ANTH 4391 or 4392). In addition, three hours of statistics (generally STAT 2331), and six hours of foreign language are required.

Requirements for the Minor. A 15-hour minor may be taken in one of three tracks: archaeology, cultural anthropology and general anthropology; an 18-hour track may be taken in biomedical anthropology. ANTH 2301 is common to all four minors with the remaining courses selected from a list furnished by the department. A grade of *C*- or better must be earned in all advanced courses taken in fulfillment of the requirements for an anthropology minor.

Credit Hours

General Anthropology Minor

1. **ANTH 2301** Introductory Cultural Anthropology 3
2. A minimum of one course in each anthropological subfield 12
   (archaeology, cultural anthropology, linguistics, physical anthropology)
   (Nine hours of which are advanced)
   [**NOTE:** *ANTH 4350/51/52 may be counted for the relevant subfield.*]

Archaeology Minor

1. **ANTH 2301** Introductory Cultural Anthropology 3
2. Archaeological Concepts (one of the following) 3
   ANTH 2302 People of the Earth
   ANTH 2363 The Science of Our Past
3. Regional Archaeology/Methods 9
   ANTH 3304 North American Archaeology
   ANTH 3312 Meso-American Archaeology
   ANTH 3313 South American Indians of the Past and Present
   ANTH 3315 Origins of Civilization
   ANTH 3318 Prehistory of the American Southwest
   ANTH 3319 Human Ecology
   ANTH 3334 Fantastic Archaeology and Pseudoscience
   ANTH 3356 Before Civilization
   ANTH 3365 The Rise and Fall of Superpowers: The Dynamics and Ethics of Empire
   ANTH 3374 Cultures and Environments of the Southwest
   ANTH 3384 Paradise Lost? The Archaeology and Ethics of Human Environmental Impacts
   ANTH 3388 Warfare and Violence
   ANTH 3390 The Plundered Past: Archaeology's Challenges in the Modern World
   ANTH 3399 Ice Age Americans
   ANTH 4191/4291/4391 Independent Study and Research (archaeological topic)
   ANTH 4300 World Archaeology
   ANTH 4325 Zooarchaeology
   ANTH 4333 Lab Methods in Archaeology
   ANTH 4343 Health and Medical Systems
   ANTH 4350/4351/4352 Special Topics in Anthropology (when relevant)
   ANTH 4381 Internship in Anthropology (archaeological topic)
   ANTH 4385 Coastal and Aquatic Archaeology
   ANTH 4390 Current Issues in Anthropology (when topic is relevant)
   ANTH 4391/4392 Independent Study and Research (archaeological topic)
   ANTH 4399 Senior Seminar in Anthropology
   ANTH 5310 Human Osteology: Biology of the Human Skeleton
   ANTH 5381/5681 Field Methods in Archaeology
   ANTH 3351 Forensic Anthropology *or*
   ANTH 4352 Topics: Human Osteology

Biomedical Anthropology Minor ***Total 18***

1. Core Courses 9
   ANTH 2301 Introductory Cultural Anthropology
   ANTH 3348 Health as a Human Right
   ANTH 3301/SOCI 3301 Health, Healing and Ethics
   ANTH 5336 Anthropology and Medicine
2. Biomedical Anthropology Electives 6–9
   ANTH 3303 Psychological Anthropology
   ANTH 3350 Good Eats and Forbidden Flesh
   ANTH 3351 Forensic Anthropology

(Continued)

ANTH 4303 Political Economy of Health
ANTH 4307 Seminar in International Health
ANTH 4344 Global Population Processes
ANTH 4350/4351/4352 Special Topics in Anthropology (biomedical topic)
ANTH 4381 Internship in Anthropology (biomedical topic)
ANTH 4391/4392 Independent Study (biomedical topic)
ANTH 5310 Human Osteology: Biology of the Human Skeleton

3. Electives in Other Departments 0–3
PHIL 3376 Bioethics
PSYC 3380 Health Psychology
ANTH/RELI 3366 Magic, Myth and Religion Across Cultures
WGST 2380 Human Sexuality

Cultural Anthropology Minor

1. **ANTH 2301** Introductory Cultural Anthropology 3
2. Cultural Concepts (two of the following) 6
ANTH 2331 The Formation of Institutions: Roots of Society
ANTH 3301 Health, Healing and Ethics
ANTH 3303 Psychological Anthropology
ANTH 3310 Gender and Sex Roles: A Global Perspective
ANTH 3319 Human Ecology
ANTH 3327 Culture Change and Globalization
ANTH 3333 The Immigrant Experience
ANTH 3336 Gender and Globalization: Cultural and Ethical Issues
ANTH 3344 Cultural Aspects of Business
ANTH 3348 Health as a Human Right
ANTH 3350 Good Eats and Forbidden Flesh
ANTH 3361 Language in Culture and Society
ANTH 3366 Magic, Myth and Religion Across Cultures
ANTH 3368 Urban Life: A Cross-Cultural Perspective
ANTH 3385/CFA 3385 Sustainable Living
ANTH 3388 Warfare and Violence
ANTH 4191, 4291, 4391 Independent Study and Research (cultural anthropology topic)
ANTH 4304 Migration, Ethnicity and Nationalism
ANTH 4305 Applied Anthropology
ANTH 4306 Anthropology and Education
ANTH 4309/6309 Human Rights, Indigenous Peoples and Nation States
ANTH 4344 Global Population Processes: Anthropological Perspectives
ANTH 4350/4351/4352 Special Topics in Anthropology (when relevant)
ANTH 4381 Internship in Anthropology (when relevant)
ANTH 4384 Global Issues and Development
ANTH 4390 Current Issues in Anthropology (cultural anthropology topic)
ANTH 4391/4392 Independent Study (cultural anthropology topic)
ANTH 4399 Senior Seminar (when relevant)
ANTH 5336 Anthropology and Medicine
ANTH 5344 Research Methods in Ethnology

3. Regional Ethnography 6
ANTH 3311 Mexico: From Conquest to Cancun
ANTH 3313 South American Indians of the Past and Present
ANTH 3314 Peoples of Africa
ANTH 3316 Cultures of the Pacific Islands
ANTH 3317 Peoples of Southeast Asia

ANTH 3323 East Asia: Cultural Traditions and Transformations
ANTH 3346 Culture and Diversity in American Life
ANTH 3353 Indians of North America
ANTH 3354 Latin America: People, Places and Power
ANTH 3355 Society and Culture in Contemporary Europe
ANTH 3358 Indians of the Southwest from the 16th Century to the Present
ANTH 3359 Peoples and Cultures of the Middle East
ANTH 3376 Caribbean Transformations: From Columbus to Carnival

The Departmental Distinction Program. This program is open to junior and senior anthropology majors with outstanding academic records. Graduation with departmental distinction is designated on the diploma of those who successfully complete the program. To earn departmental distinction, a student must: (a) complete the usual coursework for a B.A. or B.S. degree with at least a 3.5 GPA in anthropology and with at least a 3.0 GPA, overall; (b) with a grade of *B* or higher, pass ANTH 5334 and 5335 or complete a substantial independent reading program (for three term hours credit that replaces one of these) on the history, conceptual foundations or methodological problems of the discipline; (c) with a grade of *A* or *A-,* conduct a research project (for three term hours credit in ANTH 4391 or 4392); and complete a significant research paper that is a minimum of 20 pages of text, includes a bibliography, and is written in appropriate subdisciplinary professional style and format; and (d) pass an oral examination of one hour in length (with at least three departmental faculty members), covering the results of the research project and general issues and concepts in anthropology according to the subfield specialty.

NOTE: *All 2000- and 3000-level anthropology courses are open to first-year students.*

The Courses (ANTH)

1321. First-Year Seminar in Anthropology. Offers beginning students an opportunity to pursue a specific, anthropological topic in depth in a small class setting. It will be both writing- and reading-intensive.

2301. Introductory Cultural Anthropology. Basic theories and methods of cultural anthropology. Explores variations in cultural values, social practices, religion, rules of law, etc. in different cultures around the world. Focuses on understanding the forces that shape cultures and societies, and how they adapt to a rapidly changing world. Meets Human Diversity corequirement.

2302. People of the Earth: Humanity's First Five Million Years. Human biological and cultural evolution from the appearance of ancestral humans in Africa to agricultural origins and the rise of the world's great civilizations. Meets Human Diversity corequirement.

2315. Human Evolution: Biological and Social Beginnings of Humankind. Topics include mutation, natural selection, primate origins and the human fossil record. Ethical and moral issues of cloning, eugenics and creationism are also treated. Fulfills General Education Curriculum requirements for science/technology.

2321 (ENGL 2371, CFA 3301). The Dawn of Wisdom: Ancient Creation Stories From Four Civilizations. Explores the visions of the cosmos expressed in the art, archaeology and literature of Egypt, Mesopotamia, Greco-Roman civilization and the Maya, emphasizing the role of human beings as central and responsible actors therein. *Prerequisite:* ENGL 1302 or departmental approval. Meets Human Diversity corequirement.

2331 (CFA 3331). The Formation of Institutions: Roots of Society. Explores the nature of social institutions and how they change and become more complex. A case-study approach that examines selected non-Western societies at different levels of complexity. Meets Human Diversity corequirement.

2363. The Science of Our Past: An Introduction to Archaeology. Introduces students to how and why archaeologists study evidence of past human behavior. Required labs emphasize hands-on analyses of artifacts and other archaeological material. Fulfills General Education Curriculum requirements for science/technology.

3301 (SOCI 3301, CFB 3301). Health, Healing and Ethics: Cross-Cultural Perspectives on Sickness and Society. A cross-cultural exploration of cultures and organization of medical systems, economic development and the global exportation of biomedicine, and ethical dilemmas associated with medical technologies and global disparities in health. Meets Human Diversity corequirement.

3302. Monkeys and Apes: The Nonhuman Primates. This course offers an introduction to the study of nonhuman primates, from prosimians to the great apes. It explores questions of taxonomy, aspects of social behavior and patterns of communication.

3303. Psychological Anthropology. Examines the interplay of culture and personality in various Western and non-Western societies. Perception, cognition, dreams, altered states of consciousness and psychological terrorism are analyzed in cross-cultural perspective. Meets Human Diversity corequirement.

3304. North American Archaeology. North America's human past, from the earliest colonization by Ice Age peoples and their descendants who colonized the continent, to the clash of cultures that followed the arrival of Europeans in 1492. Meets Human Diversity corequirement.

3305. The "Other" in America: Popular Perceptions and Government Policy Through Time. An examination of attitudes during the past 200 years toward "others" in America, as reflected in popular culture (films and fiction), as well as in national and local government policies.

3309 (ARHS 3313). The Etruscans and Iron Age Italy. The art and architecture of early Italy, including Etruscan art, early Roman art and "Italic" art will be studied with respect to the cultural context and environment.

3310 (CFB 3310). Gender and Sex Roles: A Global Perspective. Cross-cultural and historical comparison of women's and men's life experiences in the areas of family, marriage and kinship, economic and political participation, sexuality, reproduction, ritual and religion. Meets Human Diversity corequirement.

3311. Mexico: From Conquest to Cancun. An introduction to the unity and diversity of Mexican society as it has developed through encounters with other cultures – from 16th century conquistadores to 21st century tourists and emigrants. Meets Human Diversity corequirement.

3312. Meso-American Archaeology. Examines development of civilizations from village life to the great empires of Mexico. How civilizations begin, grow, change and collapse. Meets Human Diversity corequirement.

3313. South American Indians of the Past and Present. A survey of the archaeology and ethnology of indigenous South Americans, from c. 13,000 years ago to recent times, focusing on environments, subsistence and related levels of sociopolitical integration from Tierra del Fuego to the Amazon basin and the Andes. Meets Human Diversity corequirement.

3314. Peoples of Africa. A contemporary study of cultures and social structures of Sub-Saharan African peoples and an examination of the dynamics of contemporary African societies. Meets Human Diversity corequirement.

3315. Origins of Civilization. Considers those cultural and historic factors that led from the development of agriculture to the first urban states in Egypt and Mesopotamia. Meets Human Diversity corequirement.

3316. Cultures of the Pacific Islands. Survey of Pacific Island social systems focusing on Melanesia, Micronesia and Polynesia. Explores nature of pre-contact societies and how colonial and missionary influences transformed island cultures. Examines how contemporary Pacific islanders are responding to forces of globalization. Meets Human Diversity corequirement.

3317. Peoples of Southeast Asia. A comparative study of insular and mainland cultures of Southeast Asia, their history and development, and their social and economic structures. Meets Human Diversity corequirement.

3318. Prehistory of the American Southwest. Explores the evidence of thousands of years of human cultural change that archaeologists have uncovered across the American Southwest. Ranges in time from the first appearance of humans to the time of Pueblo civilization. Meets Human Diversity corequirement.

3319. Human Ecology. Examines interactions between human populations and their environments. Relationships between population size, technology, climate and behavior in various living societies are explored. Meets Human Diversity corequirement.

3323. East Asia: Cultural Traditions and Transformations. Anthropological examination of East Asia, focusing on China, Korea and Japan. Topics include mainstream philosophical traditions, individual and society, ethnicity and nationalism, and gender. *Prerequisite:* ANTH 2301 or instructor permission. Meets Human Diversity corequirement.

3327 (CF 3319). Culture Change and Globalization: Social Science Perspectives. Introduction to anthropological perspectives on global transformations: world economic integration; economic development and sociocultural change; new patterns of hunger, poverty and disease; ethnic resurgence and nationalism; migration and transnationalism; the expansion of global religions and fundamentalist movements, and changes in gender and family patterns. Meets Human Diversity corequirement.

3333 (CFA 3316). The Immigrant Experience. Course explores historical, social, cultural and political dimensions of the US immigrant experience, and America's attitudes toward immigrants. Controversial issues such as bilingual education and illegal immigration will be examined. Meets Human Diversity corequirement.

3334 (CF 3334). Fantastic Archaeology and Pseudoscience: Lost Tribes, Sunken Continents, Ancient Astronauts and Other Strange Ideas About the Past. Did ancient astronauts visit the Earth? Are there secrets of the Maya calendar that archaeologists are not revealing? Is Creation a scientific alternative to evolution of humanity? This course investigates these and other claims about our past, and how archaeologists respond to them.

3336 (CFA 3336). Gender and Globalization: Cultural and Ethical Issues. An analysis of the impact of globalizing forces on women's lives and identities, as well as on patterns of gender relations and ideology in various cultures around the world. Meets Human Diversity corequirement.

3344. Cultural Aspects of Business. This course explores the cultural aspects of business and entrepreneurship at home and abroad. It also addresses the relationship between anthropology and business, examining business in a holistic context. Meets Human Diversity corequirement.

3346. Culture and Diversity in American Life. An overview of contemporary U.S. culture, with an emphasis on how diversity (e.g., ethnicity, class, religion and gender) is expressed in communities, in regions, and in the nation. Meets Human Diversity corequirement.

3348 (CFB 3348). Health as a Human Right. This course examines the concept of human rights critically, with an eye for cross-cultural variation, and a particular focus on rights that are health-related.

3350 (CFA 3350). Good Eats and Forbidden Flesh: Culture, Food and the Global Grocery Market. A cultural perspective on food that blends biological and medical information about human nutrition and development with an exploration of the global market of eating. *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor).

3351 (CFB 3351). Forensic Anthropology: Stories Told by Bones. Introduction to the identification of human remains, including conditions of preservation and decay. Estimating sex, stature, age and ethnicity. Identifying pathology, trauma and other causes of death.

3353. Indians of North America. A survey of American Indian and Eskimo life, past and present, with emphasis on the interaction of Indians and Whites since 1492 and contemporary American Indian problems and enterprises – reservation and urban life, gambling, health care and legal rights. Meets Human Diversity corequirement.

3354. Latin America: Peoples, Places and Power. Examines the development of Latin America in the context of global transformations since the 16th century. Special attention is given to the interaction of local communities with regional, national and international systems of power. Meets Human Diversity corequirement.

3355. Society and Culture in Contemporary Europe. Anthropological survey of social and cultural dimensions of contemporary European society. Explores unity and diversity within the region, the role of gender, religion, class, ethnicity and nationalism in structuring the lives of Europeans.

3356. Before Civilization. A survey of the Paleolithic archaeology of the first three million years of human history in the Old World. Emphasis is upon adaptation and cultural change.

3358. Indians of the Southwest From the 16th Century to the Present. An introduction to the non-Pueblo and Pueblo peoples of the Greater Southwest, with a focus on Indian-Indian and Indian-Euroamerican relations and the resultant transformations. Topics will include clash of cultures, tourism, gambling, legal rights and urbanism. Meets Human Diversity corequirement.

3359. Peoples and Cultures of the Middle East. This course will employ the lens of cultural anthropology to explore the social, cultural, familial, religious, and political lives of Middle Easterners from a wide variety of countries and backgrounds.

3361. Language in Culture and Society. An investigation of social and cultural factors affecting the use of language. Topics include linguistic variation, Black English, women's language and body language. Meets Human Diversity corequirement.

3365 (CFA 3365). The Rise and Fall of Superpowers: The Dynamics and Ethics of Empire. A comparative introduction to institutions and organizational dynamics of three ancient empires (Roman, Chinese, Inca), with discussions of the lessons that these civilizations can teach American citizens about our own society.

3366 (RELI 3366). Magic, Myth and Religion Across Cultures. A cross-cultural and comparative exploration of religion, ritual, magic and supernatural belief systems. Examines how religion permeates other aspects of society and culture. Meets Human Diversity corequirement.

3368 (SOCI 3368). Urban Life: A Cross-Cultural Perspective. An introduction to urban life and culture around the world, including how we study cities, who inhabits cities, and the special features of city places and spaces. Meets Human Diversity corequirement.

3374 (CF 3374). Cultures and Environments of the Southwest. Patterns of land use and resource use in prehistoric and early historic times in the Southwest. Focus is on the mutual influence of cultures and resources in the northern Rio Grande.

3376. Caribbean Transformations: From Columbus to Carnival. An introduction to the anthropology of Caribbean societies, focusing on the social, economic and political influences that have shaped the contemporary Caribbean. Meets Human Diversity and Perspectives corequirement.

3384 (CFA 3384). Paradise Lost? The Archaeology and Ethics of Human Environmental Impacts. Interdisciplinary archaeological, anthropological and historical examination of human impacts on the environment around the world over the last 50,000 years.

3385 (CFA 3385). Sustainable Living. Seminar focused on environmental challenges facing society and strategies for achieving a more sustainable existence.

3388 (CFA 3388). Warfare and Violence: The Anthropology and Ethics of Human Conflict. An examination of the origins and development of human aggression, violence and warfare using interdisciplinary data and theories from prehistory, ethnology, history and political science.

3390 (CFB 3390). The Plundered Past: Archaeology's Challenges in the Modern World. This course will provide an interdisciplinary understanding of the importance societies place on knowing, preserving, and altering evidence of the past. Special emphasis is placed on archaeology's role in understanding and preserving the past.

3399 (CFA 3399). Ice Age Americans. Ice age peopling of America, reconstructed by archaeology, linguistics and molecular biology, among other disciplines, and what that reveals of how people adapted to a truly New World. Meets Human Diversity corequirement.

For Undergraduate and Graduate Students

All 4000- and 5000-level courses in anthropology require introductory coursework in the appropriate subdiscipline, or permission of instructor.

4191, 4192, 4291, 4292, 4391, 4392. Independent Study and Research. For advanced undergraduates. *Prerequisite:* Approval of the director of Undergraduate Studies and a faculty sponsor.

4300. World Archaeology. An archaeological overview of the human trajectory and sociocultural development over time, beginning with the origins of modern humans and then looking at human interactions with specific environments.

4303. Political Economy of Health. Course explores topics in health and healing from a political economy perspective. Addresses social and economic factors influencing culture change, health and healing practices within a society. Examines health inequities around the globe. *Prerequisites:* ANTH 2301, ANTH 3301 or approval of instructor.

4304. Migration and Ethnicity. Examines three interrelated topics: migration, ethnicity and nationalism. Focuses on major theoretical positions and on specific ethnographic cases. *Prerequisites:* 18 hours of anthropology or permission of the instructor for nonanthropology majors.

4305. Applied Anthropology. The application of anthropological theories and methods to problems in contemporary societies, including global business, community development, health care issues, agricultural/environmental programs, urban planning, tourism projects and education policy. *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor for nonanthropology majors).

4306. Anthropology and Education. An overview of the interaction of culture, society and institutions in contemporary schools in their local, regional, national and international contexts. Special attention is given to the case of bilingual education. *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor for nonanthropology majors).

4307. Seminar in International Health. Provides an overview of issues in international health with a focus on contributions of anthropology and anthropologists to international public health issues. *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor for nonanthropology majors).

4309. Human Rights, Indigenous Peoples and Nation States. An examination of human rights issues among contemporary indigenous peoples, especially the impact of governmental and nongovernmental organizations, large-scale development programs and global tourism on their cultures and societies.

4311. Applied Linguistics. Examination of linguistic theory and data in the context of diverse, especially multilingual, speech communities. *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor for nonanthropology majors).

4325. Zooarchaeology. A lecture and laboratory course focused on the methods, techniques and implications of the analysis of animal remains from archaeological sites. *Prerequisites:* ANTH 2302 or ANTH 2363 or permission of instructor.

4333. Laboratory Methods in Archaeology. Classification and analysis of archaeological materials (various topics). *Prerequisites:* Advanced standing and ANTH 5381 or 5382 or permission of instructor.

4336. Concepts of Evolution: A History. Using original writings, interpretive texts and biographies, this seminar will examine the rise of evolutionary ideas from ancient times through the 20th century.

4343. Health and Medical Systems. Examines the epistemology and history of biomedicine, medical bureaucracy, professionalism, medical education, alternative and popular medicine, economics and health care.

4344. Global Population Processes: Anthropological Perspectives. Focuses on anthropological understanding of population processes – nuptiality, fertility, mortality, migration – and examines them within historical and cross-cultural frameworks. *Prerequisites:* 18 hours of anthropology or permission of the instructor for nonanthropology majors.

4346. Environmental Anthropology and Development. Analyzes the process of globalization from the perspective of environmental anthropology and development. *Prerequisite:* ANTH 2301.

4350, 4351, 4352. Special Topics in Anthropology. An in-depth look at particular problems and issues in contemporary anthropology. Topics will vary.

4377. The Human Fossil Record. An examination of morphology, classification and evolutionary relationships in the human fossil record. Covers the Pliocene through the emergence of modern *Homo sapiens*. Comparisons using the departmental fossil collection. *Prerequisite:* ANTH 2315 or permission of instructor.

4381. Internship in Anthropology. This course offers students experience in varied organizations and agencies where anthropological applications are relevant. These might include a contract archaeology firm, the Natural History Museum, a zoo, health clinics, marketing or PR firms, or corporations involved in international business. *Prerequisite:* Approval of the director of Undergraduate Studies and a faculty sponsor.

4384. Global Issues and Development: An Overview. An introduction to the major forces driving globalization and economic development today, analyzing how these forces impact the lives, cultures and identities of peoples around the world (with an emphasis on the developing world). *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor for nonanthropology majors).

4385. Coastal and Aquatic Archaeology. Seminar on the use of coastlines, oceans, rivers, marshes, lakes and islands throughout human history. *Prerequisites:* ANTH 2302 or ANTH 2363 or permission of instructor.

4390. Current Issues in Anthropology. Seminar on selected anthropological topics.

4399. Senior Seminar in Anthropology. An in-depth examination of current theoretical and methodological developments in the discipline. Recommended for candidates for departmental distinction in anthropology. *Prerequisites:* Senior standing or permission of instructor and ANTH 2301.

5310. Human Osteology: Biology of the Human Skeleton. Analysis of the human musculoskeletal system in both forensic and ancient contexts. In this laboratory course, students will learn the measurement and assessment of sex, age, race and stature.

5033. Proseminar on Ethics in Archaeology. Focuses on ethical issues in current archaeology, including collaboration with descendant communities, study of human remains, repatriation of cultural property, and research collaboration in international contexts.

5334. History of Anthropology Part One. Analytical history of anthropology from the classical period to the 20th century. More than just what happened when, this course explains the content and development of theory, method and interpretation. *Prerequisite:* Eighteen hours of anthropology or permission of instructor.

5335. History of Anthropology Part Two. Development of modern anthropological paradigms, with intensive readings in science, ethnology and ecological anthropology and a focus on the potential utility of theoretical coherence within the discipline. *Prerequisite:* Eighteen hours of Anthropology or permission of instructor.

5336. Anthropology and Medicine. Cross-cultural study of the cultural construction and social organization of medical systems in preindustrial and industrialized societies, including political economy of health, ethnomedicine, international health, ethnopharmacology and bioethics. *Prerequisite:* ANTH 2301 or 3301 or permission of instructor.

5344. Research Methods in Ethnology. Examination of methodologies and techniques appropriate for different types of ethnological research. *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor for nonanthropology majors).

5355. Seminar in the Southwest. This course will focus on the development of archaeology in the American Southwest by placing it in historical context, discussing the social role of archaeology in general, 19th-century exploration and the impact of early archaeological finds, development of museums, tourism, national monuments, field schools and the changing role of the Native Americans.

5359. Linguistics: General. An introduction to modern linguistic science. Topics include phonology, morphology, syntax, semantics, dialects, writing systems, child language, language and the brain, and language in education.

5381, 5382. Field Methods in Archaeology. Methods of excavation, recording and interpretation used in archaeological research. Fort Burgwin Research Center. Summer only. Students may petition to have this course fulfill the lab science requirement.

5681, 5981. Field Methods in Archaeology. Participants are engaged in all aspects of archaeological field and laboratory research, including excavation, recording of finds, survey mapping of sites, laboratory analyses of archaeological materials and interpretation of intact archaeological contexts. Fort Burgwin Research Center. Summer only.

Anthropology Courses by Subfield

Courses listed under ANTH 4350/51/52 or 4390/09 may count for any of the subfields, depending on the topic.

Subfield: General

2331 The Formation of Institutions: Roots of Society
3319 Human Ecology
3385 Sustainable Living
4191, 4291, 4391, 4192, 4292, 4392 Independent Study and Research
4399 Senior Seminar in Anthropology
5334 History of Anthropology Part One
5335 History of Anthropology Part Two

Subfield I: Archaeology

2302 People of the Earth: Humanity's First Five Million Years
2363 The Science of Our Past: An Introduction to Archaeology
3304 North American Archaeology
3312 Meso-American Archaeology
3313 South American Indians of the Past and Present
3315 Origins of Civilization
3318 Prehistory of the American Southwest
3334 Fantastic Archaeology and Pseudoscience
3356 Before Civilization
3365 The Rise and Fall of Superpowers: The Dynamics and Ethics of Empire
3374 Cultures and Environments of the Southwest
3384 Paradise Lost? The Archaeology and Ethics of Human Environmental Impacts
3388 Warfare and Violence: The Anthropology and Ethics of Human Conflict
3390 The Plundered Past: Archaeology's Challenges in the Modern World
3399 Ice Age Americans
4300 World Archaeology
4325 Zooarchaeology
4333 Laboratory Methods in Archaeology
4385 Coastal and Aquatic Archaeology
4390 Current Issues in Anthropology
5355 Seminar in the Southwest
5381, 5382 Field Methods in Archaeology
5681, 5981 Field Methods in Archaeology

Subfield II: Cultural/Social Anthropology

2301 Introductory Cultural Anthropology
3301 Health, Healing and Ethics: Cross Cultural Perspectives on Sickness and Society
3303 Psychological Anthropology
3310 Gender and Sex Roles: A Global Perspective
3311 Mexico: From Conquest to Cancun
3313 South American Indians of the Past and Present
3314 Peoples of Africa

3316 Cultures of the Pacific Islands
3317 Peoples of Southeast Asia
3323 East Asia Cultural Traditions and Transformations
3327 Culture Change and Globalization: Social Science Perspectives
3333 The Immigrant Experience
3336 Gender and Globalization
3344 Cultural Aspects of Business
3346 Culture and Diversity in American Life
3348 Health as a Human Right
3350 Good Eats and Forbidden Flesh: Culture, Food and the Global Grocery Market
3353 Indians of North America
3354 Latin America: Peoples, Places and Power
3355 Society and Culture in Contemporary Europe
3358 Indians of the Southwest From the 16th Century to the Present
3359 Peoples and Cultures of the Middle East
3366 Magic, Myth and Religion Across Cultures
3368 Urban Life: A Cross-Cultural Perspective
3376 Caribbean Transformations: From Columbus to Carnival
3385 Sustainable Living
3388 Warfare and Violence: The Anthropology and Ethics of Human Conflict
4303 Political Economy of Health
4304 Migration and Ethnicity
4305 Applied Anthropology
4306 Anthropology and Education
4307 Seminar in International Health
4343 Health and Medical Systems
4344 Global Population Processes: Anthropological Perspectives
4346 Environmental Anthropology and Development
4352 Special Topics in Anthropology
4384 Global Issues and Development: An Overview
4390 Current Issues in Anthropology
5336 Anthropology and Medicine
5344 Research Methods in Ethnology

Subfield III: Anthropological Linguistics

3361 Language in Culture and Society
4311 Applied Linguistics
5359 Linguistics (General)

Subfield IV: Physical Anthropology

2315 Human Evolution: Biological and Social Beginnings of Humankind
3302 Monkeys and Apes: The Non-human Primates
3350 Good Eats and Forbidden Flesh: Culture, Food and the Global Grocery Market
3351 Forensic Anthropology: Stories Told by Bones
4336 Concepts of Evolution: A History
4351 Special Topics in Anthropology
4352 Special Topics in Anthropology
5310 Human Osteology: Biology of the Human Skeleton

BIOCHEMISTRY

www.smu.edu/biochemistry
Professor Steven Vik, **Director**

The Biochemistry Program offers courses leading to a B.S. degree in biochemistry. This program reflects the interdisciplinary nature of modern biochemistry and includes courses in physics, mathematics, chemistry and biology. Undergraduate

research is also highly recommended. These courses will prepare students for graduate study leading to a Ph.D. degree, for entrance to professional schools such as medicine, or for the chemical or biotechnology industry.

The program includes a core of required courses but allows some flexibility in the choice of additional upper-division courses. Note that there are two options for choosing the additional courses. Option 1 has been certified by the American Chemical Society for professional training in biochemistry. Option 2 provides a more traditional curriculum for a biochemistry major. Students planning to attend graduate school are advised to take at least three credits of Undergraduate Research (BIOL 3398, 4398 or CHEM 4397). Students obtaining a B.S. degree in biochemistry may not also obtain a major or minor in chemistry or biology.

Core Courses
(57 credits)

Chemistry (25 credits):

CHEM 1303, 1304, 1113, 1114 General Chemistry
CHEM 3351 Quantitative Analysis
CHEM 3371, 3372, 3117, 3118 Organic Chemistry
CHEM 5383, 5384 Physical Chemistry

Biological Sciences (11 credits):

BIOL 1401, 1402 Introductory Biology
BIOL 3304 Genetics

Biochemistry (4 credits):

BIOL/CHEM 5310 Biological Chemistry: Macromolecular Structure and Function
BIOL/CHEM 5110 Biological Chemistry: Laboratory

Mathematics (9 credits):

MATH 1337, 1338, 2339 Calculus

Physics (8 credits):

PHYS 1105, 1106, 1303/1307, 1304/1308 General Physics

Additional Courses
(Choose either Option 1 or Option 2)

Option 1 (11 credits)

Required (5 credits):

CHEM 5185 Laboratory Methods in Physical Chemistry
CHEM 5192 Inorganic Synthesis Laboratory
CHEM 5392 Advanced Inorganic Chemistry

Electives (Choose 6 credits, one of which must be BIOL/CHEM 5311 or BIOL/CHEM 5312):

BIOL/CHEM 5311 Biological Chemistry: Metabolism
BIOL/CHEM 5312 Physical Biochemistry
BIOL 5304 Molecular Biology: Control and Expression of Genetic Information
CHEM 5397 Biotransformations and Biocatalysis
CHEM 5398 Medicinal Chemistry

Option 2 (9 credits)

Required (6 credits):

BIOL 3350 Cell Biology
BIOL/CHEM 5311 Biological Chemistry: Metabolism

Electives (Choose 3 credits):

BIOL/CHEM 5312 Physical Biochemistry
BIOL 5304 Molecular Biology: Control and Expression of Genetic Information

The Departmental Distinction Program. A biochemistry major may graduate with departmental distinction by successfully completing a special program of study that includes independent reading and research and a senior thesis under the direction of a member of the faculty. The student must submit an application to the biochemistry adviser by the first term of the junior year. At this time the student must have completed at least 22 hours toward the biochemistry degree, with a GPA of at least 3.5 in courses required for the major. Upon approval from the respective departments, the student must enroll in the following courses: BIOL 4398, 4399 or CHEM 4397. Upon completion of these courses, the student will write a senior thesis and present it orally before a public audience including a faculty committee composed of the student's research adviser, the biochemistry adviser, and at least one additional faculty member. Upon successful completion of the senior thesis and maintenance of a GPA of at least 3.5 in courses required for the major, the B.S. degree will be awarded with departmental distinction.

BIOLOGICAL SCIENCES

www.smu.edu/biology

Professor William Orr, **Department Chair**

Professors: Christine Buchanan, Richard Jones, Paul Ludden, William Orr, Larry Ruben, John Ubelaker, Steven Vik. **Associate Professors:** Robert Harrod, Pia Vogel. **Assistant Professors:** Johannes Bauer, James Waddle. **Lecturers:** Eva Oberdorster, John Wise. **Adjunct Associate Professor:** Teresa Strecker. ***Emeritus* Professors:** Venita Allison, John McCarthy, Franklin Sogandares-Bernal.

Requirements for the B.S. Degree. This degree program is designed for students who plan careers in the biological sciences or further study in graduate or professional schools. A candidate for the B.S. degree must complete a minimum of 10 courses in biological sciences, including BIOL 1401, 1402 and eight additional courses that: 1) total at least 26 advanced hours, 2) include BIOL 3304 and 3350, 3) include at least one course at the 4000 or 5000 level, and 4) include at least two courses with laboratories. The B.S. degree requires 16 hours of chemistry, including Organic Chemistry I and II with labs; eight hours of general physics; MATH 1337; and one additional course chosen from MATH 1338, or STAT 2331 or 5371. Although statistics is used extensively in biological research, preprofessional students should be aware that certain medical schools require a full year of calculus.

Requirements for the B.S.-M.S Degree. This degree program is designed for students with a strong interest in a research career. It is a five-year plan that results in both the B.S. and M.S. degrees. Admission into the program is by petition and occurs during the spring term of the second year. A research mentor must be identified and a minimum 3.2 GPA in science courses is required. The Department Graduate Committee will evaluate interested applicants. Tuition support is provided in the fifth year, and stipend support is provided for summer research and throughout the fifth year. Students in the program must be engaged in research year round and will enroll in BIOL 2101, 2102 in the third year. All of the B.S. degree requirements must be completed and include the following courses: BIOL 3304, 3350, 3398, 3399, 5304, 5310, 5311, 5110. The requirements for the M.S. degree will be met in years four and five. During year four, students will complete BIOL 6121, 6122, 6310, 6322. During year five, students will typically complete BIOL 6123, 6124; two additional graduate courses; and sufficient research credits to total 15 hours in each term of the fifth year. To remain in the program, students will maintain a 3.0 GPA in science courses and exhibit satisfactory progress in their lab work.

The Departmental Distinction Program. A biological sciences major with sufficiently high academic standing may graduate with departmental distinction by successfully completing a special program of study that includes independent reading and research and a senior thesis under the direction of a member of the departmental faculty. To graduate with departmental distinction, a student must be working toward a B.S. degree and must submit an application to the Undergraduate Studies Committee of the department for this designation during the first term of the junior year. At the time of the application, the student must have completed at least 14 hours of biological sciences, including at least six advanced hours, with a GPA in these courses of at least 3.5 and an overall GPA of at least 3.5. For students who have transferred to SMU, two grade-point averages will be calculated, that for all work attempted, and that for work completed through enrollment at SMU. Admission to the program will be based on the lower of the two averages. With departmental approval, the student will enroll for BIOL 4398 in the second term of the junior year. Upon completion of this course with a grade of *B+* or better, the student will enroll during the senior year for BIOL 4399 in which a research project will be carried out and a senior thesis written and presented to the faculty. Performance in these courses and maintenance of a 3.5 GPA for all biological sciences courses attempted will determine if the B.S. degree will be awarded "with departmental distinction."

Requirements for the B.A. Degree. This degree program is designed for students who wish to couple training in the biological sciences with a broad liberal arts program. Students who are preparing for medical or dental school should consult with the premed adviser about additional science requirements. A candidate for the B.A. degree must complete a minimum of eight courses in biological sciences, including BIOL 1401, 1402 and six courses that: 1) total at least 18 advanced hours, 2) include BIOL 3304 and 3350, 3) include at least one course at the 4000 or 5000 level, and 4) include at least two courses with laboratories. The B.A. degree also requires 12 hours of chemistry, including Organic Chemistry I with lab.

Requirements for the B.A. Degree With Teacher Certification. Students interested in the B.A. degree program with teacher certification in secondary education should confer with the Teacher Certification representative in the department to plan a specific program of study.

Requirements for the Minor. Students majoring in other departments may obtain a minor in biological sciences by completing BIOL 1401, 1402 and at least nine advanced hours, which must include BIOL 3304, 3350 and an advanced laboratory course. Each advanced course must be completed through enrollment at SMU. CHEM 1303, 1304, 1113, 1114 also are required for the minor. A student may not earn minors in both biology and the natural sciences.

Courses for Nonscience Majors (BIOL)

The courses outlined in this section are designed to satisfy the curricular requirements of nonscience students. BIOL 1303 is not open to students who have earned prior credit in BIOL 1401, and BIOL 1305, 1308, 1310 are not open to students who have earned prior credit in BIOL 1402. Nonscience majors should note that BIOL 1401, 1402 may also be taken to satisfy distribution requirements.

1303. Essentials of Biology. An introduction to the major concepts of biological thought for the nonscience major. Includes one laboratory session each week.

1305. Our Natural Environment. An introduction to major environments and their resident populations. Offered in summer session at Fort Burgwin, SMU-in-Taos, New Mexico. Includes equivalent of one laboratory session each week.

1308. Plant Biology. An introduction to the economic, social and industrial aspects of plant substances and material. Offered in summer session at Fort Burgwin, SMU-in-Taos, New Mexico. Includes equivalent of one laboratory session each week.

1310. Aquatic Biology. An introduction to the biology of lakes and streams of the Southern Rocky Mountains. Lectures and labs will be conducted at Fort Burgwin, SMU-in-Taos, New Mexico.

Courses for Biology Majors (BIOL)

Students who wish to earn the B.A. or B.S. degree in biology are encouraged to complete BIOL 1401, 1402 and CHEM 1303, 1304 (with labs) in their freshman year. However, with the approval of an academic adviser, a student may postpone BIOL 1401, 1402 for one or two terms. The introductory biology courses are the minimum prerequisite for all advanced biology courses. The general chemistry courses are a prerequisite for most advanced biology courses.

1401, 1402. Introductory Biology. An introduction to the study of living organisms. First term: cell structure, metabolism and genetics; second term: ecology, evolution, diversity and physiology. 3 lecture hours and one 3-hour laboratory each week. This 2-term offering is a prerequisite for all advanced courses in biological sciences.

3222. Molecular Genetics Laboratory. Students will gain experience in investigative methods used in modern medical research, molecular biology, genetics, bioinformatics, forensic science, and the pharmaceutical and biotechnology industries. *Prerequisite: C-* or better in BIOL 3304.

3303. Evolution. A study of the principles of biological evolution. Includes natural selection, adaptation, molecular evolution, the formation of new species, the fossil record, biogeography and principles of classification. 3 lecture hours each week. *Prerequisites:* BIOL 1402 and *C-* or better in BIOL 3304.

3304. Genetics. An introduction to the structure, function and transmission of the hereditary material. 3 lecture hours each week. *Prerequisites:* BIOL 1401 and CHEM 1304.

3306. Physiology. Homeostatic control mechanisms in vertebrates. 3 lecture hours each week. *Prerequisites: C-* or better in both BIOL 3304 and 3350.

3307 (GEOL 3307). Ecology. Basic principles and concepts of ecology with emphasis on population and community interactions. 3 lecture hours each week.

3342. Plant Kingdom. A survey of the plant kingdom emphasizing life histories and developmental morphology. 2 lecture hours and one 3-hour laboratory each week.

3350. Cell Biology. The structure and function of cells. 3 lecture hours each week. *Prerequisite* or *corequisite:* CHEM 1304.

3354. Parasitology. Comparative study of protozoa and helminthic parasitic organisms and their role in diseases. 2 lecture hours and one 3-hour laboratory each week.

3357. Biology of Invertebrates. A general survey of the invertebrates with emphasis on identification of local species, morphological adaptations, systematics and ecology. 2 lecture hours and one 3-hour laboratory each week.

3365. Cancer Biology. Emphasis on the molecular features of oncogenesis and human cancers, including carcinogenesis, metastasis and roles of genetic mutations and chromosomal aberrations during neoplasia. *Prerequisite: C-* or better in BIOL 3350.

3380. Molecular Mechanisms of Disease. Emphasis on current advances in the understanding of disease processes at the molecular level. *Prerequisite: C-* or better in BIOL 3350.

3403. Microbiology. The biology of microorganisms, with an emphasis on diversity, disease and the environment. 3 lecture hours and one 3-hour laboratory each week. *Prerequisite: C-* or better in BIOL 3304. Recommended preparation: CHEM 3371, 3117.

4132. Senior Seminar. Discussion of current problems of biological interest. 1 hour each week. *Prerequisites:* Senior standing, major in biology.

4160. Toxicology Laboratory. Modern biochemical and molecular techniques will be used to assess the impact of environmental contaminants on liver biomarkers in fish. One 3-hour laboratory each week. *Prerequisite: C-* or better in BIOL 3350. *Prerequisite* or *corequisite:* BIOL 4360.

4331. Developmental Biology. Developmental processes in animals. 3 lecture hours each week. *Prerequisite: C-* or better in BIOL 3304.

4360. Environmental and Human Toxicology. Introduction to environmental toxicology, focusing on the fate and transport, biotransformation, and biochemical and physiological impacts of pollutants on humans and wildlife. 3 lecture hours each week. Recommended preparation: CHEM 3371, 3372. *Prerequisite: C-* or better in BIOL 3350.

4370. Biotechnology and Nanotechnology. Introduction to current techniques and emerging applications of biotechnology and nanobiotechnology in medicine, agriculture, forensic and aquatic sciences, and bioremediation. *Prerequisites:* CHEM 3371 and *C-* or better in BIOL 3304.

5102. Structural Biology Seminar. This seminar course includes readings and discussions of the period 1933–1963 when structural molecular biology emerged. Readings include both original research articles and historical reviews. *Prerequisite:* BIOL/CHEM 5310 or consent of instructor.

5110 (CHEM 5110). Biological Chemistry Laboratory. One 3-hour laboratory period each week. *Prerequisite* or *corequisite*: BIOL 5310.

5166 (GEOL 5166). Vertebrate Anatomy Laboratory. A laboratory course to accompany BIOL/GEOL 5366. Exercises include basic anatomy, dissections and examinations of fossil skeletons. *Corequisite:* BIOL 5366 (GEOL 5366).

5304. Molecular Biology: Control and Expression of Genetic Information. DNA structure and replication, control of transcription and translation, and techniques in molecular genetics and recombinant DNA technology. *Prerequisites:* CHEM 3372 and *C-* or better in BIOL 3304.

5305. Genomics and Bioinformatics. Impact of completely sequenced genomes on current experimental and computational approaches to biomedical research. Introduction to the technology, biology and software exploited by molecular biology, genealogy and medical diagnostic labs. *Prerequisites: C-* or better in BIOL 3304 and junior standing.

5310 (CHEM 5310). Biological Chemistry: Macromolecular Structure and Function. Introduction to the structure and function of macromolecules of biological importance. Emphasis on nucleic acid and protein structure, enzyme kinetics, carbohydrate and lipid chemistry. 3 lecture hours each week. *Prerequisites:* CHEM 3371, 3372. The accompanying laboratory (BIOL 5110) is strongly recommended for biology majors.

5311 (CHEM 5311). Biological Chemistry: Metabolism. Introduction to the pathways and regulatory events in the metabolism of carbohydrates, lipids, amino acids and nucleotides. 3 lecture hours per week. *Prerequisites:* CHEM 3371, 3372.

5312 (CHEM 5312). Physical Biochemistry. Physical chemistry of macromolecules and biological membranes, with an emphasis on the thermodynamics of solutions. *Prerequisites:* MATH 1338 and CHEM 3372, 5310. (CHEM 5381 or CHEM 5383 is recommended.)

5325. General and Molecular Virology. Emphasis on the molecular aspects of viral replication and pathogenesis, including the roles of viruses in emerging human infectious diseases, cancer and bioterrorism. *Prerequisites: C-* or better in BIOL 3304 and junior standing.

5358. Ecology of Parasitism. The biotic and abiotic factors influencing parasite communities. Emphasis on the free-living stages of parasites. 2 lecture hours and one 3-hour laboratory each week. *Prerequisite:* BIOL 3354.

5366 (GEOL 5366). Vertebrate Anatomy and Origins. An introduction to vertebrate anatomy with emphasis on structure and function. Additionally, the course examines processes that have affected the diversity of vertebrate organisms, including origination, biogeography and adaptation. Prerequisite(s): BIOL 1401, 1402 or GEOL 1308. The accompanying laboratory is a corequisite for biology majors and strongly recommended for all other students. *Corequisite:* BIOL 5166.

Special Courses (BIOL)

2101. Introductory Research I. A minimum of five hours per week doing supervised laboratory research. This course is offered on a pass/fail basis only. *Prerequisites:* At least sophomore standing, BIOL 1401, 1402 and consent of the instructor.

2102. Introductory Research II. A minimum of five hours per week doing supervised laboratory research. This course is offered on a pass/fail basis only. *Prerequisites:* BIOL 2101 and consent of the instructor.

3395. Internship in Biology. Biological research at an institution other than SMU. Credit does not apply toward the degree requirement for two laboratory courses. A student cannot have previously completed BIOL 3398.

3398. Undergraduate Research I. A minimum of 9 hours per week doing research in the laboratory of a faculty member. Credit for this course does not apply toward the degree requirement for two laboratory courses nor can a student have previously completed BIOL 3395. *Prerequisites:* Junior standing, and approval by the faculty sponsor and the Undergraduate Studies Committee of the department.

3399. Undergraduate Research II. This course is offered on a pass/fail basis only and cannot be applied toward the requirements for the major in biological sciences. *Prerequisites:* BIOL 3398, and approval by the faculty sponsor and the Undergraduate Studies Committee of the department.

4398. Honors Research I. For students in the departmental distinction program. *Prerequisite:* Admission to the departmental distinction program.

4399. Honors Research II. For students in the departmental distinction program. *Prerequisite:* Admission to the departmental distinction program.

SMU-in-Taos Courses

3343. Field Botany. Identification of vascular plants with emphasis on ecological indicators. Lectures and laboratories conducted at Fort Burgwin, New Mexico.

3347. Systematic Botany. An introduction to the history, nomenclature, family characteristics, identification and biosystematics of the flowering plants. Lectures and laboratories conducted at Fort Burgwin, New Mexico.

5359. Host-Parasite Relationships. Analysis of host-parasite relations from an evolutionary and ecological viewpoint. Lectures and laboratories conducted at Fort Burgwin, New Mexico. *Prerequisite:* BIOL 3354.

SMU Abroad Courses

3100, 3200, 3300. Special Topics Abroad. Courses offered in SMU-approved international programs. May be repeated for credit under different subtitle. A maximum of 6 credit-hours may be applied toward the B.A. or B.S. degree in biology. May not be applied toward the minor in biology. *Prerequisite:* Departmental approval.

3308. Biology of Marine Mammals. A comparative study of marine mammal anatomy, morphology, physiology, life history and behavior, and adaptation to marine existence. Includes study of the effect of human activities on marine mammals, with special reference to Northern European waters. (SMU-in-Copenhagen only) *Prerequisites:* BIOL 1401, 1402.

3309. Marine Biology of European Coastal Waters. Special emphasis on animals and plants living in European coastal waters. Chemical and physical parameters and their effect on community structure, morphology, anatomy and physiology. Functions as well as survival strategies and adaptations of the most important organisms. (SMU-in-Copenhagen only) *Prerequisites:* BIOL 1401, 1402; CHEM 1303, 1113.

3310. Ecology and Human Impact in the North and Baltic Seas. Marine ecosystems and communities, their distribution and function in the North and Baltic seas. Problems related to human activities, e.g., fisheries, habitat deterioration, eutrophication and pollution. Ecosystem approach, sustainability and precautionary principle in management. (SMU-in-Copenhagen only) *Prerequisites:* BIOL 1401, 1402; CHEM 1303, 1113.

3311. Tropical Ecology and Sustainable Development. Examines the ecological impact of human activity, especially agriculture, in a tropical country. Topics include water pollution, waste management and climate change. (SMU-in-Costa Rica only) *Prerequisites:* BIOL 3307 and at least one college-level course in Spanish.

3312. Wildlife Ecology. Ecological principles of the East Africa savanna ecosystem. Examines factors underlying distributions, population biology and behavioral ecology, along with competition and predation, using African examples. (SMU-in-Kenya only) *Prerequisite:* BIOL 3307.

CHEMISTRY

www.smu.edu/chemistry

Professor Elfi Kraka, **Department Chair**

Professors: Edward Biehl, John Buynak, Dieter Crèmer, Elfi Kraka, Michael Lattman, John Maguire, Mark Schell, Patty Wisian-Neilson. **Associate Professors:** Werner Horsthemke, David Son, Brent Sumerlin. **Assistant Professor:** Nicolay Tsarevsky. **Adjunct Professor:** Raj Vempati. **Lecturers:** Andrea Adams, Helen Babbili. **Adjunct Lecturer:** Jennifer O'Brien.

The atmosphere of the Chemistry Department is an informal one where students have easy access to the faculty. The advanced classes are small and most advanced laboratories are taught by the professorial staff. This gives the faculty the opportunity to get to know their undergraduate student majors quite well. The department believes that this close personal contact between faculty and students is important to success in undergraduate education. Undergraduate majors are heavily involved in research, working in teams with faculty, postdoctoral fellows and graduate students. Our majors are accepted into the leading graduate and professional schools in the nation. On average, two-thirds of our graduates seek advanced degrees. Those with majors at the Bachelor's level who choose employment find excellent positions.

For Undergraduate Students

Requirements for the B.S. Degree. The completion of a minimum of 44 hours in the department, including CHEM 1113, 1114, 1303, 1304, 3351; Organic Chemistry I and II with labs; CHEM 4397, 5185, 5188, 5192, 5310, 5383, 5384, 5392, 5486; and an additional 5000-level course in chemistry to be chosen in consultation with the departmental adviser. In addition, eight hours of general physics; and MATH 1337, 1338, 2339. This degree is certified by the American Chemical Society for professional training in chemistry.

Requirements for the B.S. Degree in Environmental Chemistry. CHEM 1113, 1114, 1303, 1304, 3351; Organic Chemistry I and II with labs; CHEM 5310, 5383, 5384, 5486, 5390; and either CHEM 5392 or GEOL 3451. In addition, eight hours of general physics; MATH 1337, 1338, 2339; GEOL 6363; at least one introductory environmental science elective, chosen from GEOL 1301, GEOL 1315, GEOL 2320, GEOL 2321, CEE 2304 or CEE 2421; at least one advanced environmental science elective, chosen from BIOL 3307, BIOL 3343, GEOL 3353, GEOL 3366, GEOL 5384 or CEE 5333; and at least three hours of undergraduate research (CHEM 4397 or GEOL 4399) on a topic in environmental chemistry. The research project can be conducted in the laboratory of an SMU faculty member or as an internship with a private company, and will culminate in a written report. Students planning to attend graduate school are advised to complete MATH 2343 or a statistical science course at the 4000 or 5000 level. This degree program is certified by the American Chemical Society for professional training in environmental chemistry.

Requirements for the B.A. Degree. The completion of a minimum of 26 hours in the department, including CHEM 1113, 1114, 1303, 1304; Organic Chemistry I and II with labs; CHEM 5381 (or 5383); plus at least 7 additional hours at the advanced level, to be chosen in consultation with the department adviser. In addition, eight hours of general physics, MATH 1337 and one additional course in math or statistics are required. This degree is not certified by the American Chemical Society.

The Departmental Distinction Program. A chemistry major pursuing a B.S. degree may elect to graduate with departmental distinction. The student must apply to the department for this designation during the junior year, after at least 22 hours of chemistry have been completed with a minimum GPA of 3.5 in those courses. The student will enroll in CHEM 4397 and undertake an independent research project

under the supervision of a departmental faculty member. During the senior year, a senior thesis will be written and presented to the department. Upon approval of the departmental faculty at the completion of these requirements, and provided the student maintains a minimum 3.5 GPA in all chemistry courses, the student will be awarded the "departmental distinction" designation.

Requirements for the Minor. Students majoring in other departments may obtain a minor in chemistry by completing CHEM 1303, 1113 and CHEM 1304, 1114 plus three additional advanced courses to be chosen in consultation with the Chemistry Department adviser.

The Courses (CHEM)

1301. Chemistry for Liberal Arts. A course designed for students with weak backgrounds in chemistry and for liberal-arts students.

1303, 1304. General Chemistry. Designed primarily for science majors, premed students and engineering students. Offers an introduction to the fundamental principles and theories of chemistry, including stoichiometry, the structure of matter, energy relationships involved in the transformation of matter, the dynamics of such transformations, and some descriptive chemistry of the important elements. It is a prerequisite to all advanced courses in the department. Withdrawal from CHEM 1303, 1304 requires withdrawal from corresponding labs.

1113. General Chemistry Laboratory. One 3-hour laboratory period each week. *Prerequisite* or *corequisite:* CHEM 1303.

1114. General Chemistry Laboratory. One 3-hour laboratory period each week. *Prerequisite:* CHEM 1113; *Prerequisite* or *corequisite:* CHEM 1304.

3117. Organic Chemistry Laboratory. One 3-hour laboratory period each week. *Corequisite:* CHEM 3371.

3118. Organic Chemistry Laboratory. One 3-hour laboratory period each week. *Corequisite:* CHEM 3372.

3351. Quantitative Analysis. A course involving the theory and practice of quantitative analytical chemistry techniques including gravimetric, volumetric, electrochemical and spectroscopic analyses. 3 hours of lecture and two 4-hour laboratory periods per week for one-half term. *Prerequisites:* CHEM 1303, 1304, 1113, 1114.

3371, 3372. Organic Chemistry. Designed to satisfy the requirements of the chemistry major and health-related-professions student. The first term deals primarily with aliphatic chemistry with special emphasis on stereochemistry. The second term emphasizes aromatic substances and the chemistry of biologically relevant molecules. *Prerequisites:* CHEM 1303, 1304, 1113, 1114.

4000. Research. For students who hold research fellowships but are not enrolled in any credit-hour courses. No tuition.

4397. Undergraduate Research. *Prerequisites:* Junior or senior classification and permission of the instructor.

Courses for Undergraduate and Graduate Students

5108. Special Topics in Chemistry. Special topics of current interest. Content varies from term to term.

5110 (BIOL 5110). Biological Chemistry Laboratory. One 3-hour laboratory period each week. *Corequisite:* CHEM 5310. If CHEM 5110 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

5185. Laboratory Methods in Physical Chemistry. Laboratory experiments with emphasis on thermodynamics, chemical kinetics and physical biochemistry. 1/2 hour of lecture and 5-hour laboratory period each week for 5 weeks. *Prerequisite:* CHEM 5381 or 5383.

5188. Advanced Physical Chemistry Laboratory. Laboratory experiments with emphasis on chemical kinetics and molecular spectroscopy. 1/2 hour of lecture and 5-hour laboratory period each week for 5 weeks. *Prerequisite:* CHEM 5185. *Corequisite:* CHEM 5384 or permission of instructor.

5192. Inorganic Synthesis Laboratory. This course introduces students to advanced techniques and methods used in the synthesis of inorganic compounds. Corequisite (or prerequisite): CHEM 5392.

5306. Introduction to Computational Chemistry. Besides the normal lab experiments, modern chemists/biochemists perform "experiments" on the computer by calculating the outcome of chemical/biochemical reactions. The present course will provide an introduction into this new field in a hands-on fashion. Major quantum chemical packages will be used. *Prerequisites:* CHEM 1303, 1304 or equivalent, or permission of instructor.

5308. Special Topics in Chemistry. Presentation of advanced special topics in chemistry that are at the forefront of current chemical interest. Content varies from term to term.

5310 (BIOL 5310). Biological Chemistry: Macromolecular Structure and Function. Introduction to the structure and function of macromolecules of biological importance. Emphasis on nucleic acid and protein structure, enzyme kinetics, carbohydrate and lipid chemistry. 3 lecture hours each week. *Prerequisites:* CHEM 3371, 3372. If CHEM 5310 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

5311 (BIOL 5311). Biological Chemistry: Metabolism. Introduction to the pathways and regulatory events in the metabolism of carbohydrates, lipids, amino acids and nucleotides. 3 lecture hours each week. *Prerequisites:* CHEM 3371, 3372.

5312 (BIOL 5312). Physical Biochemistry. Physical chemistry of macromolecules and biological membranes, with an emphasis on the thermodynamics of solutions. *Prerequisites:* MATH 1338 and CHEM 3372, 5310. (CHEM 5381 or CHEM 5383 is recommended.)

5317. Introduction to Molecular Modeling and Computer-Assisted Drug Design. The course presents a thorough and in-depth overview of methods and techniques in computer-assisted drug design (CADD). It includes topics such as drug discovery and drug design, molecular recognition and docking, ligand-receptor interactions, pharmacophore searching, virtual screening, de novo design, molecular graphics, chemometrics, etc. *Prerequisites:* CHEM 1303, 1304 or equivalent, or permission of instructor.

5321. Understanding Chemistry with the help of Models and Concepts. The course focuses on a general understanding of chemistry in terms of models and concepts that describe structure, stability, reactivity and other properties of molecules in a simple, yet very effective way. *Prerequisites:* CHEM 1303, 1304 or equivalent, or permission of instructor.

5322. Introduction to Nanotechnology. Nanotechnology (NT) is expected to change our lives and society more than computer technology and electricity have done together. The course will provide an introduction to NT. Nano-materials and their applications will be discussed. *Prerequisites:* Minimum of 6 hours of chemistry, physics, engineering or biology.

5333. Introduction to Polymer Chemistry. This course provides basic information on the synthesis, physical properties and solution properties of high molecular weight molecules. Plastics, manufacturing and fabrication of polymers are discussed. *Prerequisites:* CHEM 3371, 3372.

5381. Physical Chemistry. Introduction to chemical thermodynamics, kinetics, molecular structure, spectroscopy and statistical mechanics. Designed for B.A. majors in chemistry. *Prerequisites:* CHEM 1304, 1114; PHYS 1106, 1304; MATH 1337.

5383. Physical Chemistry I. Gas laws; kinetic molecular theory; introduction to thermodynamics, with applications to phase transitions and chemical equilibrium; chemical kinetics. *Prerequisites:* PHYS 1106, 1304, 1114 and MATH 2339, or permission of instructor.

5384. Physical Chemistry II. Elements of quantum mechanics and its description of many electron atoms, bonding, and spectroscopy; intermolecular forces; structure of solids; and transport properties of fluids. *Prerequisite:* CHEM 5383.

5390. Environmental Chemistry. An examination of the chemistry of Earth's environment and of environmental problems caused by anthropogenic activities. Topics include aquatic and soil chemistry; nuclear chemistry; alternative energy; CO2 neutral, biomaterial and green technologies; atmospheric chemistry; and global warming. *Prerequisites:* MATH 1338; PHYS 1303; CHEM 1304, 1114. *Recommended:* PHYS 1304; and CHEM 5381, 5383 or GEOL 6338.

5392. Advanced Inorganic Chemistry. Survey of the bonding, structure and reactivity of inorganic compounds; coordination, organometallic and main group element chemistry. 3 hours of lecture each week. Recommended: CHEM 5384.

5393. Advanced Organic Chemistry. 3 hours of lecture each week. *Prerequisite:* CHEM 3372.

5396. Advanced Physical Chemistry. 3 hours of lecture each week. *Prerequisite:* Permission of instructor.

5397. Biotransformations and Biocatalysis. This course will cover the history, application and current trends of biotransformations and biocatalysis with an emphasis on how biocatalysts are developed and used in pharmaceutical research. *Prerequisites:* CHEM 3371, 3372.

5398. Medicinal Chemistry. This course will highlight the close relationships of organic chemistry and biochemistry with the field of medicine. The course will rely on the departmental computational laboratory to permit three-dimensional visualization of molecular interactions. 3 hours of lecture each week. *Prerequisites:* CHEM 3371, 3372.

5486. Instrumental Analysis. A course involving the theory, operation and application of instrumentation used in the modern chemical laboratory. 2 hours of lecture and two 3-hour laboratory periods each week. *Prerequisite:* CHEM 3351 or permission of instructor.

CLASSICAL STUDIES

Associate Professor Melissa Dowling, **Director**

The classical studies minor offers an integrated program studying the various aspects of the civilization of ancient Greece and Rome. The minor requires 18 hours, of which at least nine hours must be at the advanced level (3000 or above). Coursework for the minor must be distributed as follows:

A. Classical Languages (6 hours)
LATN 2311, 2312 or other advanced Latin courses
Classical Greek at 2000 level, when available

B. Classical Studies (At least one course from each group) (12 hours)

Group 1 (Art History)
ARHS 3303 Archaeological field methods in Italy
ARHS 3307 Art and Society in Late Antiquity, 300–700
ARHS 3312 Etruscan and Roman Art
ARHS 3313 Etruscan and Iron Age Italy
ARHS 3314 The Art and Architecture of Ancient Pompeii
ARHS 3315 Classical Sculpture
ARHS 3316 Art in Rome (SMU-in-Rome)
ARHS 3317 Ancient Painting
ARHS 3319 Art of the Roman Empire
CLAS 3311 (ARHS 3311) Mortals, Myths and Monuments of Ancient Greece

Group 2 (History)
HIST 3353 The History of Ancient Greece
HIST 3354 Warfare and Diplomacy in Antiquity
HIST 3355 Class and Gender in Ancient Society
HIST 3361 Roman History and the Roman Mind
HIST 5391 Athenian Democracy
PHIL 3351 History of Western Philosophy (Ancient)

Group 3 (Other)
ANTH 2321 (ENGL 2371) The Dawn of Wisdom: Ancient Creation Stories From Four Civilizations
ARHS 3318 Currents in Classical Civilization
ARHS 3603 Archaeological Field Methods of Italy

CLAS 2311 Myth and Thought in the Ancient World
CLAS 2332 Society Expanding – Polis and Empire
CLAS 3312 Classical Rhetoric
RELI 3320 Introduction to Classical Judaism
RELI 3326 Introduction to New Testament
RELI 3349 Early Christianity
RELI 3371 The World of the New Testament

The Courses (CLAS)

2311. Myth and Thought in the Ancient World. Explores the conceptual and philosophical underpinnings of ancient understandings of reality in Western and non-Western cultures in ancient and modern times. Materials for investigation will be primarily textual, including myths, epics, tragedies and philosophical discourse in ancient Greece.

2332. Society Expanding – Polis and Empire. This course presents a case-study approach to the development of cities, civilizations and empires from the appearance of urbanism in Mesopotamia to the end of the European Middle Ages, with special reference to political, economic and religious institutions.

3311 (ARHS 3311). Mortals, Myths and Monuments of Ancient Greece. A visual analysis of the rich tapestry of ancient Greek culture, fountainhead of Western civilization, with emphasis on mythological, archaeological and historical settings in which the art and architecture occur. Touches on various aspects of ancient Greek life, including religious practices, Olympic contests, theatrical performances and artistic perfection, among others.

3312 (CFB 3312). Classical Rhetoric. Readings in the Ancient Sophists, Plato, Aristotle, Isocrates, Cicero, Quintilian, Longinus and St. Augustine; study of the intellectual foundations of the Western world.

EARTH SCIENCES

www.smu.edu/earthsciences

Professor Robert Gregory, **Department Chair**

Professors: David Blackwell, Robert Gregory, Eugene Herrin, Louis Jacobs, Lee McAlester, Jim Quick, Brian Stump, John Walther, Crayton Yapp. **Associate Professors:** Bonnie Jacobs, Neil Tabor. **Research Professors:** Steven Bergman, Anthony Fiorillo, Roy Mink, John Wagner, Alisa Winkler, Dale Winkler, Pierre Zippi. **Research Associate Professor:** H. Troy Stuckey. **Research Assistant Professors:** Jason McKenna, Mihan House McKenna, Yurena Yanes.

The Roy M. Huffington Department of Earth Sciences provides ways of understanding and appreciating dynamic earth processes, the physical environment, and the place of humanity in the long and complex history of the planet and solar system. They also provide the background for rewarding careers in industry, government and academia. The faculty offers exceptional learning and research opportunities in geology, geochemistry, geophysics, resource geology, planetary geology, paleontology, and natural resource and energy management.

Earth sciences attract students with broad interests in geology, chemistry, biology, environmental science, archaeology, physics, astronomy, oceanography, applied mathematics or engineering. The department strongly encourages combined majors. In addition to combinations with the above fields, many undergraduate earth science majors have double majors or minors in business (especially finance, real estate or marketing), economics, prelaw, computer science, archaeology, foreign languages, English, history, journalism and premed. Earth science is an interdisciplinary, applied science that integrates well with other fields.

Academic programs are tailor-made to the educational and career objectives of each student. Because of the heavily funded active research programs within the department and their close ties with the Dallas geological community, students

often receive excellent pre- and post-graduation employment opportunities. The department also has some financial aid available for undergraduate majors, including department scholarships and support for off-campus field programs.

The department offers four different majors in earth sciences: geology B.A. and B.S., geophysics B.S., and resource geology B.S. A minor in geology or environmental earth science that can be combined with virtually any other degree program on campus is available. The department is the home of the Environmental Science and Environmental Studies programs. (See the degree program listing in the Dedman College section for details.)

Major in Geology

The B.A. or B.S. degree in geology consists of a core sequence that provides a basic background in plate tectonics, earth materials (mineralogy and igneous, metamorphic and sedimentary rocks) and field methods. Beyond the core sequence, all students are encouraged to include sedimentology and structural geology (required for the B.S.) in their programs. Students, in consultation with a faculty adviser, are encouraged to pursue concentrations in paleontology, geochemistry or resource geology that integrate classroom learning with field and laboratory experience.

Requirements for the B.A. Degree. A minimum of 28 hours in earth sciences, selected from the following:

1. One course chosen from **GEOL 1301, 1305, 1307, 1308, 1313, 1315** – 3 hours
2. **GEOL 3340, 3451, 3452** – 11 hours
3. Earth science electives at the 3000 level or above – 12 hours minimum
4. Geology field studies (one course chosen from **GEOL 3241, 3242, 3243, 3343**) – 2 to 3 hours

Required support courses – 9 hours minimum:

1. **CHEM 1301** or **1303** – 3 hours
2. **PHYS 1301, 1303** (recommended) *or* **1313** – 3 hours minimum
3. **MATH 1337** – 3 hours

NOTE: Participation in a recognized geology summer field camp is strongly recommended for all majors (B.A. and B.S.). Most earth science graduate programs in the United States require that a field course be completed.

Requirements for the B.S. Degree. A minimum of 36 hours in earth sciences, selected from the following:

1. One course chosen from **GEOL 1301, 1305, 1307, 1308, 1313, 1315** – 3 hours
2. **GEOL 3340, 3451, 3452, 3454** – 15 hours
3. Earth science electives at the 3000 level or above – 12 hours minimum
4. Geology field studies (one course chosen from **GEOL 3241, 3242, 3243, 3343**) – 2 to 3 hours
5. **GEOL 4296** *and* **4298** *or* **GEOL 4657** – 4 to 6 hours

Required support courses – 17 hours minimum:

1. **CHEM 1303, 1113; 1304, 1114** – 8 hours
2. **PHYS 1303** – 3 hours
3. **MATH 1337, 1338** – 6 hours

NOTES:

- Participation in a recognized geology summer field camp is strongly recommended for all majors (B.A. and B.S.). Most earth science graduate programs in the United States require that a field course be completed.
- Experience with a modern scientific computing language is essential. This experience can be gained in a course such as GEOL 3359 Computer Methods in the Earth Sciences.

- The requirements for the major are considered minimal. Students planning careers in the earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Consult a faculty adviser for suggestions.

Minor in Geology

Requirements for the Minor. A minimum of 17 hours in earth sciences, selected from the following:

1. One course chosen from **GEOL 1301, 1305, 1307, 1308, 1313, 1315** – 3 hours
2. Earth science electives at the 3000 level or above – 12 hours minimum
3. Geology field studies (one course chosen from **GEOL 3241, 3242, 3243, 3343**) or an earth sciences elective at the 3300 level or higher, if not used to meet the requirement listed above – 2 to 3 hours

Major in Geophysics

Geophysical techniques are used to understand the physical behavior of Earth, including plate-tectonic processes, earthquake mechanisms and nuclear test-ban verification. The B.S. degree in geophysics provides a strong quantitative background in seismology, geothermics and digital signal processing.

Requirements for the B.S. Degree. A minimum of 33 hours in earth sciences, selected from the following:

1. One course chosen from **GEOL 1301, 1305, 1307, 1313, 1315** – 3 hours
2. **GEOL 3340, 3451, 3452** – 11 hours
3. **GEOL 3454, 5320, 5392** – 10 hours
4. Earth science electives at the 3000 level or above, one of which must be in geophysics – 9 hours minimum

Required support courses – 30 hours minimum:

1. **CHEM 1303, 1113** – 4 hours
2. **PHYS 1303, 1105; 1304, 1106** – 8 hours
3. **MATH 1337, 1338, 2339, 2343, 3337, 3353** – 18 hours

NOTES:

- Participation in a recognized geology or geophysics summer field camp is strongly recommended for all geophysics majors.
- Experience with a modern scientific computing language is essential. This experience can be gained in a course such as GEOL 3359 Computer Methods in Earth Sciences.
- The requirements for the geophysics major are considered minimal. Students should consult a faculty adviser for recommendations on additional coursework that best fits their goals.

Major in Resource Geology

Resource and environmental issues are central to the important challenges facing the world today. As a result, resource and environmental problems are being addressed by a growing number of disciplines, including the sciences, engineering, the legal profession, economics, journalism and ethics. Yet, most of these problems are rooted in geological processes. The B.S. degree in resource geology is intended to provide students with a quantitative understanding of the chemical and physical processes involved in the formation and production of a particular resource and the environmental consequences. The degree is preparation for the practice of geology in the public sector. Because of the multidisciplinary scope of most resource problems, students are strongly encouraged to take appropriate courses in other departments.

Requirements for the B.S. Degree. A minimum of 33 hours in earth science, selected from the following:

1. One course chosen from **GEOL 1301** (recommended), **1305, 1307, 1308, 1313, 1315** – 3 hours
2. **GEOL 3340, 3451, 3452** – 11 hours

3. **GEOL 3330, 5384, 5386** – 9 hours
4. Two electives chosen from **GEOL 3343, 3353, 3374, 3454, 3472, 4390, 5459** – 6 to 8 hours minimum
5. **GEOL 4296** and **4298** or **GEOL 4657** – 4 to 6 hours

Required support courses – 23 hours minimum:

1. **CHEM 1303, 1113; 1304, 1114** – 8 hours
2. **PHYS 1303** – 3 hours
3. **MATH 1337, 1338, 2339, 2343** – 12 hours

NOTES:

- Experience with a modern scientific computing language is essential. This experience can be gained in a course such as GEOL 3359 Computer Methods in Earth Sciences.
- The requirements for the resource geology major are considered minimal. Students should consult a faculty adviser for recommendations on additional coursework that best fits their goals.

Minor in Environmental Earth Sciences

The minor in environmental earth sciences is designed with a two-course geology core as background to an interdisciplinary course of study. The minor is freestanding and is not intended to feed into a major. Instead, it should provide an excellent and substantive background for students heading into the environmental field from other disciplines. The minor is not suitable for a student majoring in the earth sciences. The Department of Earth Sciences is responsible for administration of this minor.

Requirements for the Minor. A minimum of 17 hours, to be selected from the following, with at least nine hours at the 3000 level or above:

1. One course chosen from **GEOL 1301, 1305, 1307, 1308, 1313, 1315** – 3 hours
2. One course chosen from **GEOL 3330, 3340[1], 3353[2], 3363, 3366[2]** – 3 hours
3. Four courses to be selected from **GEOL 1315, 3241–43, 3307, 3330, 3340, 3343, 3353, 3363, 3366, 5384, 5386** (if not used to meet the requirement listed above); **BIOL 1305*, 3307[3], 3342[3], 3343[3]*; CEE 5311*** – 11 to 12 hours

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** Course is taught only at SMU-in-Taos*

Course prerequisites:

[1] *One 1300-level GEOL course or permission of instructor*

[2] *High school chemistry and algebra*

[3] *BIOL 1401 and 1402 or permission of instructor*

The Courses (GEOL)

1301. Earth Systems. Examines geologic change within the earth as governed by physical, chemical and biological processes, and interactions between the solid earth, oceans, atmosphere and biosphere. 3 hours of lecture and one 2-hour laboratory each week. Recommended for all geology tracks.

1305. Oceanography. A study of the physical (geological), biological and chemical processes responsible for the existence of the ocean as we know it today. Examines the impact of man on the oceans and oceanography's role in resource development, climatic and environmental modification, and other human concerns. 3 hours of lecture and one 2-hour laboratory each week.

1307. The Solar System. A study of the formation and evolution of the solar system. Discussion of solar system materials, nebular processes, meteorites, the formation and evolution of the planets and their satellites, the origin of stars, and the evidence for the standard model of cosmology. 3 hours of lecture and one 2-hour laboratory each week.

1308. Evolution and Life History. Evolution as observed in the fossil record in light of biological principles. Evolution as a process, origins of life, adaptation and extinction, emphasizing examples from the geological record. One 4-hour field trip each week. Recommended for the paleontology track.

1313. Earthquakes and Volcanoes. Seismic and volcanic activity are two important manifestations of plate tectonics on the earth. They are also two major natural hazards affecting humankind. This course will emphasize the geologic insights provided by earthquakes and volcanoes, and their impact on society.

1315. Introduction to Environmental Sciences. Fundamental principles of ecology, hydrology, geology, population dynamics, land-use management and related fields will be used as the basis for understanding many of the major environmental issues that face our planet – greenhouse climate changes, soil and water pollution, acid rain and related atmospheric pollution problems, habitat destruction and species extinctions, waste disposal, land use management, energy resource development, geologic hazards, and others. 3 hours of lecture and one 2-hour laboratory. Field trips will take the place of some laboratory classes.

2320, 2321. Southwestern Environments: A Geologic Approach. Practice of the scientific method by investigation of the processes affecting geologic and environmental change in the southwestern United States. Offered only through the SMU-in-Taos program. Course will satisfy either the laboratory science requirement (2320) or the second-term writing requirement (2321). Either course can fulfill a 1300-level geology major or minor course requirement.

3107. Departmental Seminar. Students attend and critically evaluate departmental seminars given by visiting scientists, visiting engineers, faculty and graduate students. *Prerequisite:* Major in geology, geophysics or environmental geology.

3241, 3242, 3243, 3343. Geology Field Studies. Project- and mapping-oriented, two-week field trips to classical geological localities inside or outside of the United States. Trips will normally be conducted either during the May interterm or between terms. Examples of planned trips include the Caribbean, Hawaii, Grand Canyon, Lake Superior/Canada and New Mexico/Colorado. *Prerequisite:* One 1300-level course in earth sciences and permission of instructor.

3307 (BIOL 3307). Ecology. Basic principles and concepts of ecology with emphasis on population and community interactions. 3 lecture hours each week. *Prerequisites:* BIOL 1401, 1402 or permission of instructor

3330. Resources and the Environment. A study of earth materials and processes and how they bear on planning, resource, conservation and pollution problems arising from humankind's intense use of the earth. *Prerequisites:* High school algebra and chemistry, and one 1300-level course in earth sciences, or permission of instructor.

3340. Face of the Earth. A study of the theory of plate tectonics for understanding earthquake, volcano and mountain-belt formations. Specific application of the theory is illustrated in terms of its application to understanding features of the regional geology of North America such as the coastal region and the San Andreas Fault. *Prerequisite:* One 1300-level course in earth sciences or permission of instructor.

3353. Modern and Ancient Climates. Science of the modern atmosphere, modern climate, and evidence of historical climatic change. Geological evidence for atmospheric and climatic changes throughout Earth's history. *Prerequisite:* One 1300-level course in earth sciences or permission of instructor.

3359. Computer Methods in Earth Sciences. Solutions to geological, geochemical, and geophysical problems unique to earth sciences using computer methods. Focuses on computer application to geologic mapping, modeling and data analysis. *Prerequisite:* Permission of instructor.

3360. Process Geomorphology. Analysis of geological processes and other factors that influence or control the origin and development of landforms of the earth. Laboratory exercises and field trips are included. *Prerequisite:* One 1300-level course in earth sciences or permission of instructor.

3361, 3363. Environmental Geology Seminar. Focuses on timely geoscience-based environmental problems and addresses scientific, environmental, political, economic, legal and social aspects of potential "solutions" through selected readings, seminars, guest speakers and research projects. *Prerequisite:* One 1300-level earth sciences course or permission of instructor.

3366. Environmental Geology and Geochemical Cycles. An introduction to the physical and chemical processes occurring in the earth's atmosphere, oceans, rivers and groundwater at both a local and a global scale. *Prerequisites:* High school algebra and chemistry and one 1300-level course in earth sciences.

3369. Paleobiology. A survey of biological diversity, phylogenetic analysis, rates of evolution, extinction, biogeography, taphonomy and paleoecology. *Prerequisites:* One 1300-level course in earth sciences or permission of instructor; BIOL 1401 is also a suitable prerequisite.

3374. Introduction to Petroleum Geology. An introduction to stratigraphy, sedimentation and petroleum geology. *Prerequisite:* One 1300-level course in earth sciences or permission of instructor.

3451, 3452. Earth Materials I and II: Mineralogy and Petrology. The study of minerals and rocks: elementary crystallography; crystal chemistry; mineral structures and physical properties; rock classification and identification of rocks and minerals in hand specimen; principles of mineral optics; identification of minerals in thin section; and introduction to relationships among rock textures, origins and rock-forming processes. *Prerequisites:* One 1300-level course in earth sciences and credit or registration in CHEM 1301 or 1303 (for 3451); credit or registration in GEOL 3340 (for 3452).

3454. Structural Geology. Introduction to the stress-strain relations of rocks, the origin of faults, the brittle to ductile transition, and mechanics of thrusting and folding. Laboratory problems in structure contouring, fault solutions, stereonet manipulation and analysis of folded terrains. *Prerequisite:* Credit or registration in GEOL 3452, or permission of instructor.

3472. Principles of Sedimentation. A study of the origin and post-depositional modification of sediments, sedimentary structures, and sedimentary rocks. Application to the recognition and interpretation of ancient marine and nonmarine sedimentary depositional sequences. Required weekend field trips. *Prerequisite:* Credit or registration in GEOL 3451, or permission of instructor.

4199, 4299, 4399. Integrative Research. Faculty-supervised independent geoscience research project designed to acquaint the student with current scientific techniques in data gathering (in field and/or laboratory and/or library), data processing and presentation of results. *Prerequisite:* Permission of faculty adviser.

4296, 4298. Senior Thesis Research Project. Significant scientific project is undertaken during the student's senior year. GEOL 4296 and 4298 are a 1-year sequence.

4321. Internship in Geoscience. Direct experience using applied geoscience techniques in a work environment, including resource recovery companies; environmental companies; law firms; nonprofit organizations; educational institutions; and municipal, state or federal agencies. *Prerequisites:* Junior or senior standing in a geoscience major, overall GPA of at least 3.0, and completion of GEOL 3452; sponsorship of a professor and approved organization, agency or company.

4390. Introduction to Geophysical Prospecting. Introduction to geophysical exploration techniques. Lecture and laboratory. *Prerequisite:* MATH 1338 or permission of instructor.

4600. Earth and Planetary Geology. Field camp that provides intensive, hands-on experiences with physical geology and observational planetary geology. *Prerequisites:* GEOL 3451, 3452 and permission of instructor.

4657. Field Geology. Geologic mapping and field trips in a summer field-camp setting. *Prerequisites:* GEOL 3454, 3472 or permission of instructor.

5110, 5210, 5310. Independent Study in Geoscience. Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for 5110 or 5210; group projects allowed for 5310.

5166 (BIOL 5166). Vertebrate Anatomy Laboratory. A laboratory course to accompany GEOL 5366. Exercises include basic anatomy, dissections and examination of fossil skeletons. *Corequisite:* GEOL 5366.

5199, 5299, 5399. Special Topics in Earth Sciences. Topics of special interest not covered by the regular curriculum, taught by visiting scientists and those with temporary appointments at SMU. Can be cotaught together with faculty of the department. *Prerequisite:* GEOL 3340 or permission of instructor.

5261. Mineral Chemistry. A study of the major rock-forming minerals with emphasis on solid solution, chemistry in relation to crystal structure, conditions of occurrence and stability relations.

5320. Dynamic Earth I. Physical and chemical structure of the earth and its evolution through geologic time. Dynamic processes in the mantle and crust. Development of the theory of plate tectonics as a unifying mechanism for large-scale geologic processes. Implications of plate tectonics, and contemporary applications to geological and geophysical problems. *Prerequisite:* Permission of instructor.

5360. Electron Microprobe Analysis. Design and operation of the instrument. Correction procedures and computer automation. Analytical techniques and mineral chemistry.

5366 (BIOL 5366). Vertebrate Anatomy and Origins. An introduction to vertebrate anatomy with emphasis on structure and function. Additionally, the course examines processes that have affected the diversity of vertebrate organisms, including origination, biogeography and adaptation. *Prerequisites:* BIOL 1401, 1402 and GEOL 1308, or permission of instructor. The accompanying laboratory, BIOL 5166, is strongly recommended.

5368. Paleoecology. Interactions between the living world and the earth's changing environments through geologic time. *Prerequisite:* GEOL 3369 or permission of instructor.

5369. Introduction to Palynology. The course provides an overview of palynology: concepts and uses. Taphonomic processes and applications in paleoecology, paleoclimatology, archeology, plant taxonomy and plant evolution are considered. No prerequisites. One field trip.

5370. Global Change. An introduction to relatively short-term geologic changes in the earth's environments. Tempo and mode in the three principal sources of such changes – extraterrestrial events, variations in the earth's internal dynamo, and the evolving ocean-atmosphere-biosphere system – will be emphasized. *Prerequisite:* GEOL 3340 or permission of instructor.

5371. Paleontology of Quaternary Vertebrates. The history of vertebrate life in North America during the last 3 million years, with special emphasis on mammals. Origins, distribution, distinctions, environmental interpretations, and faunal analysis. *Prerequisite:* GEOL 3369 or consent of instructor.

5372. Principles of Sedimentation. Study of the origin and evolution of sedimentary rocks in terms of interpretation of marine and nonmarine sedimentary record.

5374. Petroleum Geology. Application of geologic principles to the location and recovery of hydrocarbon resources in the crust of the earth. *Prerequisite:* Permission of instructor.

5380. Principles of Stratigraphy. Evolution and application of modern stratigraphic concepts, and the development of stratigraphic nomenclature. Emphasis on the integration of physical, biological and chemical parameters in interpretation of the rock record. *Prerequisites:* GEOL 3340 and CHEM 1304, or permission of instructor.

5382. Igneous and Metamorphic Petrology. The origin, occurrence and classification of igneous and metamorphic rocks. Problems of genesis are considered in the light of chemical equilibria and features of geological occurrence. Lecture, no lab. *Prerequisite:* GEOL 3452 or permission of instructor.

5384. Hydrogeology. An introduction to the chemical and physical behavior of natural waters and the role of fluids in geologic processes. The course will stress the application of thermodynamics, kinetics, and fluid mechanics to understand such geologic processes as ore formation, sediment diagenesis, isograd formation, acid rain, global warming and groundwater contamination. *Prerequisites:* MATH 1338 and CHEM 1304, or permission of instructor.

5386. Geochemistry. A survey of geochemical processes within the earth and at its surface, emphasizing mineral water interactions and application of the principles of chemical equilibrium to the solution of geochemical problems. *Prerequisite:* GEOL 3452 or permission of instructor.

5389. Theory of Digital Data Processing in Geophysics. Linear transform theory, convolution, correlation, linear systems, Shannon sampling theorem, discrete Fourier transform, Fast Fourier Transform, Z transform, inverse filtering, recursive filtering, optimum filtering, deconvolution and power spectrum analysis. *Prerequisite:* MATH 2343 or permission of instructor.

5391. Potential Field Methods in Geophysical Exploration. Introduction to potential theory in geophysics. The emphasis is on gravity and magnetic techniques with a brief introduction to heat flow and electrical methods. Basic concepts and their application to hard and soft rock exploration are covered.

5392. Introduction to Seismology. Basic principles of seismology. *Prerequisites:* MATH 2343 and permission of instructor.

5394. Geophysical Problem Solving. Approaches to problem solving in geophysics. "Back-of-the-envelope" approximations and dimensional analysis. Analytical solutions and numerical techniques on the computer. Inverse theory and error propagation. Using models in the real world. Term project. *Prerequisites:* MATH 2343, 5353; knowledge of a programming language.

5398. Geomorphology. Analysis of endogenic and exogenic processes that influence the origin or development of planet surfaces, with an emphasis on the Earth's large-scale processes and phenomena. *Prerequisite:* GEOL 3452 or permission of instructor.

5399. Special Topics in Earth Sciences. Topics of special interest not covered by the curriculum, taught by visiting scientists and those with temporary appointments at SMU. Can be co-taught together with faculty of the department. *Prerequisite:* GEOL 3340 or permission of instructor.

5459. Soils and Paleosols. This is a lecture, lab and field-based course about modern and ancient (paleosol) soil description, classification and genesis. The course emphasizes environmental controls on soil formation and distribution across Earth's landscapes. Recommended: CHEM 1303, 1304, 1113, 1114, 3351; CEE 4385. *Prerequisites:* One from GEOL 1301, 1305, 1307, 1308, 1313, 1315; and GEOL 3343, 3451, 3452, 3472.

5481. Igneous and Metamorphic Petrology. The origin, occurrence and classification of igneous and metamorphic rocks. Problems of genesis are considered in the light of chemical equilibria and features of geological occurrence. Lecture and laboratory. *Prerequisite:* GEOL 3452 or permission of instructor.

ECONOMICS

www.smu.edu/economics

Professor Tom Fomby, **Department Chair**

Professors: Nathan Balke, Raveendra Batra, Rajat Deb, Tom Fomby, Kathy Hayes, Daniel Millimet, Santanu Roy, Kamal Saggi, Daniel Slottje, Shlomo Weber. **Associate Professors:** Thomas Osang, Saltuk Ozerturk. **Assistant Professors:** Bo Chen, Kyle Hyndman, Anna Kormilitsina, Isaac Mbiti. **Senior Lecturer:** James Cooley. **Lecturers:** Helen Reynolds, Rupinder Saggi, Elizabeth Wheaton.

Requirements for the Major. The student majoring in economics may choose among four degree plans. Each degree plan requires the student to take six core classes (ECO 1311, 1312, 3301 and 3302, MATH 1309 or 1337, and STAT 2301 or 2331 or 4340). Under each degree plan, the student is expected to take ECO 1311 and 1312 and MATH 1309 and 1337 during their first or second year. Finally, under each degree plan, the student must have a GPA of at least 2.0 in economics courses attempted, and the student must receive at least a grade of *C-* in all classes counting toward the major. MATH 1309 or 1337 is required prior to enrolling in ECO 3301 or 3302. STAT 2301, 2331 or 4340 is required prior to enrolling in any economics course at the 4000 level or above. Once the major is declared, due progress must be made in terms of course enrollment. If requirements change, the catalog in force at the time the major is declared prevails.

Requirements for the B.A. Degree. The B.A. degree in economics is designed primarily for students who want a liberal arts education with an emphasis on economics but with great breadth. This degree requires the six core classes and 18 hours of advanced economics* (defined as ECO 3355 and any economics course at the 4000 or 5000 level).

Requirements for the B.S. Degree. The B.S. degree in economics offers more specialized training in economics and provides a firm basis for graduate study in business, economics or law. This degree requires the six core courses; 24 hours in advanced economics* (defined as ECO 3355 and any economics course at the 4000 or 5000 level), of which at least six hours must be at the 5000 or above level; satisfaction of at least one of the approved subfields (listed below); and three additional hours of calculus (MATH 1338).

Requirements for the B.S. Degree With Finance Applications. The degree combines specialized training in economics with a concentration in areas significant to financial markets. This degree is particularly suited to those seeking a career in the financial sector. This degree requires the six core courses; 27 hours in advanced economics* (defined as ECO 3355 and any economics course at the 4000 or 5000 level) of which nine hours must be satisfied by ECO 3355, 4368 and 4378; at least six hours must be at the 5000 or above level; satisfaction of at least one of the approved subfields (listed below); ACCT 2301; and CSE 1340, 1341 or ITOM 3306 (only for business majors/minors).

Requirements for the B.S. Degree With Systems Analysis. The B.S. degree in economics with systems analysis offers integrated studies in economics, operations research and computer science. It provides excellent preparation for graduate education in economics, business or public administration and for service in both the public and private sectors where quantitative economists provide assistance in policy formulation. This degree requires the six core courses; 24 hours in advanced economics* (defined as ECO 3355 and any economics course at the 4000 or 5000 level), of which at least six hours must be at the 5000 or above level; satisfaction of at least one of the approved subfields (listed below); MATH 1338 and 2339; CSE 1341, 1342, 2341, 2353 and 3358.

** Excluding ECO 3321*

NOTES:

1. ECO 3301 and 3302 require prior completion of MATH 1309 or 1337.
2. All economics courses at the 4000 level or above require prior completion of STAT 2301 or 2331 or 4340.
3. Additional recommended or required preparation for courses is indicated within the course descriptions.
4. Questions concerning specific courses and the undergraduate program in general should be directed to Economics Department personnel.
5. Each student majoring in economics is urged to consult a departmental adviser periodically to review their degree plan and progress.
6. The three B.S. degree plans require the student to satisfy at least one subfield in economics when choosing advanced economic courses. Approved subfields are:

Econometrics (2 out of 4)

ECO 5350 Introduction to Econometrics
ECO 5375 Economic and Business Forecasting
ECO 5385 Data Mining Techniques for Economists
ECO 6352 Applied Econometrics

Economic Growth and Development (2 out of 4)
ECO 5359 Economic Development: Microeconomic Perspectives
ECO 5360 Economic Development: Macroeconomic Perspectives
ECO 5361 Natural Resources and Energy Economics
ECO 5362 Economic Growth

Economics of Industrial Organization (2 out of 2)
ECO 4371 Theory of Industrial Structure
ECO 4382 Economics of Regulated Industry

International Economics (2 out of 2)
ECO 4357 International Trade
ECO 4358 International Macroeconomic Theory and Policy

Labor Economics (2 out of 3)
ECO 4351 Labor Economics
ECO 4361 Economics of Education
ECO 5357 Economics of Human Resources

Economics of Decision-Making (2 out of 5)
ECO 5340 Decision-Making Under Uncertainty
ECO 5341 Strategic Behavior
ECO 5342 Experimental and Behavioral Economics
ECO 5353 Law and Economics
ECO 5355 Political Economics

Monetary Economics (2 out of 2)
ECO 4385 Macro Theory and Policy
ECO 4386 Topics in Monetary Economics

Public Economics (2 out of 4)
ECO 4366 Economics of the Public Sector
ECO 5320 Health Economics
ECO 5365 Public Finance
ECO 5370 Cost-Benefit Analysis

Departmental Distinction. The student majoring in economics with sufficiently high standing may graduate with departmental distinction by pursuing a rigorous independent research project under the direction of a faculty sponsor. The research will occur while enrolled in ECO 4398. The project will be presented to the faculty sponsor and director of Undergraduate Studies at the end of the term.

Requirements for the Minor. The student majoring in other departments may obtain a minor in economics by completing the six core courses (ECO 1311, 1312, 3301, 3302, MATH 1309 or 1337, and STAT 2301 or 2331 or 4340) and two advanced courses at the 4000 or 5000 level. In addition, the student must have a GPA of at least 2.0 in economics courses attempted, and the student must receive at least a grade of *C-* in all classes counting toward the minor. Nonlecture classes cannot be used toward an economics minor.

Students may either obtain a general minor in economics or a minor in a specialized field (international economics, public economics, labor economics, econometrics, economic growth and development, monetary economics, economics of decision-making, and economics of industrial organization). The specialization may be obtained if six hours of 4000- and 5000-level courses constitute one of the above eight fields currently approved by the Economics Department.

For more information about the Economics Department, visit www.smu.edu/economics.

The Courses (ECO)

1310. Exploring Economic Issues. Discusses current economic issues and problems in a suitable manner for students not majoring in economics or related sciences. No prerequisites. No credit is allowed for students who have received credit for ECO 1311 or 1312.

1311. Principles: Consumers, Firms and Markets (Microeconomics). Enables a concerned citizen to make an intelligent appraisal of current controversies relating to consumers and producers. Explains tools of economic analysis. No prerequisites.

1312. Principles: Inflation, Recession and Unemployment (Macroeconomics). The second term of a liberal arts education sequence discusses issues such as inflation, unemployment and growth from both national and global perspectives. Tools of economic analysis include models of open economies. *Prerequisite: C-* or better in ECO 1311.

2301. Topics in Economics. Topics vary. Course may not be used to satisfy requirements for an economics major or minor. *Prerequisite: C-* or better in ECO 1310, 1311 or 1312.

3301. Price Theory (Intermediate Microeconomics). Considers more advanced problems of microeconomics. The focus is on understanding how consumers behave, how firms make pricing and output decisions, and the structure of markets and how this impacts the behavior of firms and consumers. Economic theory postulates certain behavioral rules for consumers and firm managers, and makes certain assumptions concerning the institutional structure of society (its laws, property rights, customs, etc.). Various testable propositions can be derived from the operation of the society's economic system. These propositions are investigated by working through actual models. *Prerequisites: C-* or better in ECO 1311 and 1312, and MATH 1309 or 1337.

3302. National Income and Employment (Intermediate Macroeconomics). This course is designed to investigate the factors that influence the level of aggregate income in an economy. It attempts to study the decision-making that ultimately results in the determination of the levels of consumption, investment or employment. For the most part, primitive general equilibrium models are employed to investigate these questions, as well as to analyze the impact of various government fiscal policies. The behavior of business cycles and patterns across various countries is also analyzed. *Prerequisites: C-* or better in ECO 1311 and 1312, and MATH 1309 or 1337. *Corequisite:* ECO 3301.

3321. International Economic Policy. Examines the facts and theories of international trade and finance. Emphasis is placed on analyzing current issues such as the U.S. trade deficit, policies toward multinational firms, and harmonization of fiscal and monetary policies among countries. *Prerequisites: C-* or better in ECO 1311 and 1312. Note: ECO 3321 cannot be taken after or concurrent with ECO 4357, and credit for this course cannot be used toward an economics major or minor.

3355. Money and Banking. Analyzes central and commercial banking for students majoring in economics, business and related sciences. A student may not receive credit for both ECO 3355 and FINA 3330 Money and Capital Markets. *Prerequisites: C-* or better in ECO 1311 and 1312. *Note:* Course enrollment restricted to economics majors/minors only.

4101, 4201, 4301. Topics. (to be specified in title) *Prerequisites: C-* or better in ECO 3301 and 3302, or permission of instructor.

4351. Labor Economics. This course is an introduction to the study of labor economics. It provides an overview of labor supply and labor demand models, with extensions to models of taxes and tax credits, welfare and social security. The focus then shifts to models of wage determination and extensions such as the effects of minimum wage, performance-based pay, unions and discrimination. This course will be equally devoted to both theoretical and empirical analysis of these issues. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4357. International Trade. The purpose of this course is to provide an understanding of international trade in goods and services among countries and to develop a framework for analyzing trade policy issues. Major topics covered include the determinants of trade; the gains from trade; the relation between trade and foreign direct investment; trade and labor migration; the effects of trade restrictions such as import tariffs or export subsidies; and the

analysis of regional economic integration such as the European Union or NAFTA. The course covers only the real effects of trade; international financial issues will not be treated. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4358. International Macroeconomic Theory and Policy. This course examines the monetary aspects of international economics. Implications of contemporary banking and foreign exchange practices are explored, as are interpretations given to changes in the structure of a nation's balance of payments. Central attention is given to the macroeconomic interactions among national economies and international systematic adjustments expected from market disturbances and shifting government policies. Students will evaluate the operation of the international monetary system from the gold-standard period to the present. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4361. Economics of Education. An economic analysis of the state of the U.S. educational system. Topics include trends in academic achievement, educational production functions, teacher labor markets and educational reforms. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4365. State and Local Government Finance. Many government expenditures and taxes that impact everyday life are provided and largely financed by state and local governments. These include police and fire protection, public education, sanitation and refuse removal, street and road maintenance, water supply, recreation, and environmental protection. In this course, we will study how state and local governments make decisions about what services to provide and make decisions about how to finance them. *Prerequisites: C-* or better in STAT 2301, 2331 or 4340, MATH 1309 or 1337; recommended: ECO 3302.

4366. Economics of the Public Sector. This course discusses both the positive and normative aspects of government expenditures. The focus is on theoretical principles useful for analyzing the role of government intervention. Problems of market failures due to externalities and the presences of public goods (like national defense) serve as the starting point for explaining why government spending occurs. The free-rider problem and incentive mechanisms for preference revelation are covered. A brief survey of voting and social-choice models is presented. Specific government expenditure policies are explored. These topics may vary from year to year. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4368. Foundations of Financial Economics. This course applies the tools of economic analysis to financial decision-making. Emphasis is placed on developing a framework for understanding the economic nature of these problems and their solutions. Topics include the introduction to financial economics, time value of money, investment decisions, risk and return, capital asset pricing model, capital budgeting, capital structure, dividend policy, hedging, mergers and acquisitions, and international financial management. *Prerequisites: C-* or better in ECO 3301, 3355, ACCT 2301, MATH 1309 or 1337, and ITOM 2305 or STAT 2301, 2331 or 4340. Note: ECO 4368 cannot be taken if student has taken FINA 3320. Course enrollment restricted to economics majors/minors only.

4371. Theory of Industrial Structure. This course focuses on the structure (internal organization) and behavior (market strategy) of firms in the market place. Firm structure and behavior are worth studying, since most real markets violate the standard of competitive assumptions and, therefore, may not maximize social welfare. This course considers both the exercise of market power (e.g., price discrimination) in relatively simple markets with a single firm as well as the more complicated exercise of market power (e.g., limit pricing, product differentiation, vertical foreclosure) in markets with multiple firms. Particular attention is paid to such policy-relevant issues as the relationship between market concentration and market power and the relationship between "meeting the competition" and predatory pricing. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4376. Special Topics in Economic History and Development. Economic principles are used to explore important and controversial questions. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4378. Financial Economics and Investment Behavior. The objective of this course is to give the student a theoretical basis for financial analysis within the context of the total process of investment decision-making. Theoretical foundations will be developed for the analysis of equities and bonds as well as portfolio performance. *Prerequisites: C-* or better in ECO 3301, 4368 or FINA 3320, MATH 1309 or 1337, and ITOM 2305 or STAT 2301, 2331 or 4340, or permission of instructor. Note: ECO 4378 cannot be taken if student has taken FINA 4320 or FINA 4326. Course enrollment restricted to economics majors/minors only.

4382. Economics of Regulated Industries. The existence of government regulation of business prompts economists to ask both why such regulations exist and what impact they have on firms' behavior, market structure (in particular, firms' market shares) and social welfare. The parallel goals of the course are to provide 1) a solid analytical foundation for investigating the above questions and 2) a thorough and detailed description of the most important government regulations (including antitrust, product quality, and patent laws). *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4385. Macroeconomics: Theory and Policy. The purpose of this course is to take students beyond the traditional macroeconomics course. Among the topics examined are new developments in the analysis of business cycles, the causes and consequences of inflation and the sources of economic growth. Special emphasis is placed on "taking theory to the data," so that students begin to see more clearly how to evaluate current macroeconomic theories and controversies. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4386. Topics in Monetary Economics. Monetary economics is one of the largest fields in economics. Rather than touching on a large number of topics, this course will provide students who have had intermediate macroeconomics with a course where fewer topics in monetary economics are covered intensively at a more advanced level. The course will take an in-depth look at selected topics of current interest in the field of monetary theory and policy. The topics covered may vary from year to year. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4390. Independent Study in Economics. By arrangement with departmental director of Undergraduate Studies. Eligible students undertake a research paper under the supervision of the faculty sponsor and give an oral presentation of the paper. Note: This course can be taken only once. *Prerequisites:* ECO 3301, 3302, two advanced economics classes (4000 level or above), a 2.5 GPA in economics classes, *C-* or better in MATH 1309 or 1337 and one of the following: STAT 2301, 2331 or 4340.

4391. Development of Economic Doctrine. Analyzes the development of modern economics. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

4395. Economics Internship. Undertake an analysis of a particular economics problem at the interning firm or organization, complete a research paper under the supervision of a faculty sponsor, and give an oral presentation of the paper. *Prerequisites:* ECO 3301, 3302, two advanced economics classes (4000 level or above), a 3.0 GPA in economics classes, *C-* or better in MATH 1309 or 1337 and one of the following: STAT 2301, 2331 or 4340.

4396. Business and Economic Forecasting Internship. Similar to ECO 4395, but with a focus on an econometric analysis of a particular empirical issue appropriate to the interning firm or organization. *Prerequisites:* ECO 3301, 3302, 5350 and 5375, a 3.0 GPA in economics classes, *C-* or better in MATH 1309 or 1337 and one of the following: STAT 2301, 2331 or 4340.

4397. Law and Economics Internship. Similar to ECO 4395, but with a focus on the economic and legal analysis of a particular issue appropriate to the interning firm or organization. *Prerequisites:* ECO 3301, 3302, 5353, one other advanced economics course (4000 level or above), a 3.0 GPA in economics classes, *C-* or better in MATH 1309 or 1337 and one of the following: STAT 2301, 2331 or 4340.

4398. Departmental Distinction in Economics. By arrangement with departmental Director of Undergraduate Studies. Eligible students undertake a research paper under the supervision of the faculty sponsor and give an oral presentation of the paper. *Prerequisites:* ECO 3301, 3302, two advanced economics courses (4000 level or above), 3.7 GPA in economics classes, 3.5 GPA overall, senior standing, *C*- or better in MATH 1309 or 1337 and one of the following: STAT 2301, 2331 or 4340.

4399. Research/Reading Seminar in Economics. The research/reading seminar is designed for honors students and other exceptional undergraduate students at the junior or senior level who would like to investigate a select number of topics in economics in great depth. Under the guidance of a faculty member, the students will read a number of professional journal articles and books in economics and discuss the assigned readings in a seminar format. Note: This course can only be taken once. *Prerequisites:* ECO 3301, 3302, 3.5 GPA in economics classes (or related major), 3.0 GPA overall, or permission of instructor, *C*- or better in MATH 1309 or 1337 and one of the following: STAT 2301, 2331 or 4340.

5101, 5201, 5301. Topics. (to be specified in title) *Prerequisites: C*- or better in ECO 3301, 3302, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5320. Health Economics. An introduction to the economics of health and health care policies and how they have affected the structure, function and cost-effectiveness of the health care industry, principally in the United States. *Prerequisites: C*- or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5337. Urban Economics. This course applies economic concepts to an understanding of urban form, urban growth, trends in size and structure of urban areas, and the predominant urban public issues of transportation, housing, land-use planning, and environmental controls. This course provides an opportunity to study particular topics in depth. *Prerequisites: C*- or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5340. Decision-Making Under Uncertainty. Provides a basis for the modeling of decision-making under conditions of incomplete information. *Prerequisites: C*- or better in ECO 3301, 3302, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5341. Strategic Behavior. This course introduces the basic concepts and tools of game theory, with applications to various areas of economics. In particular, we study how individuals and firms behave when they are well aware that their decisions affect the behavior of others. The areas of application are numerous and diverse: technology adoption, bargaining between labor unions and management, insurance, welfare policies, optimal pricing and location, division of an estate, strategy on the battlefield, etc. The various topics are unified by the techniques employed for determining the outcome in particular situations. *Prerequisites: C*- or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5342. Experimental and Behavioral Economics. Students study the field of behavioral economics in which the underlying assumptions of economics models are tested using experimental techniques. Guided by behavioral regularities, new models of behavior are introduced. *Prerequisites: C*- or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340. Recommended: ECO 5341, 5350.

5350. Introductory Econometrics. Discusses the economic analysis of quantitative data and introduces computer analysis. *Prerequisites: C*- or better in ECO 3301, 3302, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340 or ITOM 2305.

5353. Law and Economics. Dick's advice in Henry VI, "Let us first kill all the lawyers," is well taken, but impractical. For better or for worse, laws and lawyers are becoming more and more important in defining how we live and how our economy operates. This course is designed to apply the tools of economic analysis to legal questions. The primary purpose of this course is to examine economic theories that explain the development of common law and constitutional law. Secondly, the course will look at the economic implication of certain laws, particularly laws regulating contracts, antitrust laws and liability rules. *Prerequisites: C*- or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5355. Political Economics. This course is a study of both methods and applications of political economics models via theoretical and empirical investigation of various topics with emphasis on asymmetric information, income redistribution and fairness, federalism and formation of institutions, and strategic behavior of special interest groups. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5357. Economics of Human Resources. This course examines several topics of interest to modern labor economists: individual labor supply and time allocation, human capital investments and the return to education, unemployment, job search, minimum wage, children and marriage, inequality, income mobility and immigration (both legal and illegal). The course will be equally devoted to theoretical modeling and interpreting empirical evidence, and to the analysis of policies such as subsidizing education, unemployment insurance, minimum wage, and restriction of immigration. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340. Recommended: ECO 4351.

5359. Economic Development: Microeconomic Perspectives. A microeconomic examination of various economic issues faced by developing countries. Topics include intrahousehold resource allocation, rural and urban labor markets, migration, and credit and insurance markets. *Prerequisites: C-* or better in ECO 3301, 3302, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340. Note: Students who have taken ECO 5360 prior to fall 2007 will not receive credit for this course.

5360. Economic Development: Macroeconomic Perspectives. A macroeconomic examination of the economic issues faced by developing countries. Topics include population growth, national savings, capital accumulation, human capital formation, government institutions and international integration. *Prerequisites: C-* or better in ECO 3302, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5361. Natural Resources and Energy Economics. This course is designed to develop an understanding of the economics of energy and natural resource use and policy. Topics include natural resource supply and demand, the economics of renewable and non-renewable resource usage, sustainable economic growth, the environmental effects of natural energy conservation, energy security and the (de)regulation of U.S. electricity and natural gas markets. *Prerequisites: C-* or better in ECO 3301, 3302, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5362. Economic Growth. This course examines the facts and theories of economic growth, the economics of technological change and the role of governments and markets in promoting or impeding economic development. *Prerequisites: C-* or better in ECO 3301, 3302, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5365. Public Finance. This course covers the theories of the public sector. Applications of these theories will vary year to year. Problems of market failures, externalities, and preference revelation will be examined. Specific government expenditure policies will be analyzed. The course also develops the principles to be used when evaluating a specific tax. This framework includes efficiency and equity considerations. These concepts are used to investigate specific revenue sources such as taxes on personal income and corporate income. *Prerequisites: C-* or better in ECO 3301, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340. Recommended: ECO 3302.

5370. Cost-Benefit Analysis. Individual economic decisions coordinated through a fully functioning set of competitive markets guarantee an efficient outcome. However, in a large number of instances markets may fail to operate satisfactorily, requiring the government to intercede to promote efficiency and/or equity. This course introduces students to the tools for evaluating alternative methods of government intervention. In particular, it develops a framework for evaluating costs and benefits of economic projects from the government's point of view. *Prerequisites: C-* or better in ECO 3301 or graduate standing, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

5375. Economic and Business Forecasting. Presentation of methods used by economists to forecast economic and business trends and ways of evaluating the usefulness of these methods. *Prerequisites: C-* or better in ECO 2301, 2331, or ECO 4340 or ITOM 2305.

5380. Computing for Economics. Economic analysis with emphasis on the use of programs and computer packages. Topics include software assessment for use in economics, statistics software applications in economics, matrix language packages, computer algebra and linear programming applications. *Prerequisites: C-* or better in ECO 3301, 3302 and 5350, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340 or ITOM 2305.

5385. Data Mining Techniques for Economists. A study of data mining techniques used by economists in the fields of applied economics, marketing and finance. These techniques include classification methods, affinity analysis, and data reduction and exploration methods. *Prerequisites: C-* or better in ECO 5350 or an equivalent course, and one of the following: STAT 2301, 2331 or 4340.

5390. Mathematical Finance: Theory and Applications. A study of selected topics in finance (such as capital asset pricing, options and their valuation, analytics of credit derivatives) that combines theory with actual applications in the financial profession. *Prerequisites: C-* or better in ECO 4368, 4378 and 5350, MATH 1309 or 1337, and one of the following: STAT 2301, 2331 or 4340.

ENGLISH

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Associate Professor Nina Schwartz, **Department Chair**

Professors: Timothy Crusius, Dennis Foster, Ezra Greenspan, Ross Murfin, Jasper Neel, C.W. Smith, Willard Spiegelman, Steven Weisenburger. **Associate Professors:** Richard Bozorth, Darryl Dickson-Carr (Director of Graduate Studies), David Haynes (Director of Creative Writing), Michael Holahan, Beth Newman, Timothy Rosendale (Director of Undergraduate Studies), Rajani Sudan, Marjorie Swann, Bonnie Wheeler (Director of Medieval Studies). **Assistant Professors:** Angela Ards, Irina Dumitrescu, Daniel Moss, Jayson Gonzales Sae-Saue, Martha Satz, Lisa Siraganian. **Senior Lecturers:** Carolyn Channell, Jo Goyne, Pamela Lange, Tom Stone. **Lecturers:** Elizabeth Dwelle, Diana Grumbles (Director of First-Year Writing), Marta Harvell, Vanessa Hopper, Diana Howard, Mary Jackman, Harold Knight, Pauline Newton, Ona Seaney, Nancy Srebro, Lori Ann Stephens, Vicki Tongate. **Professor *Emeritus:*** John Lewis.

The B.A. in English offers a rich intellectual experience through the study of American, British and other literature written in English. The course of study engages with contemporary modes of literary inquiry in order to arrive at an understanding of how language, culture and society work. At the same time, it emphasizes the aesthetic, emotional and intellectual pleasures of imaginative writing. The degree is appropriate for students who wish to obtain a broad liberal education as a foundation for careers or further study, and is especially recommended as preprofessional training for fields such as law, administration and business that require high proficiency in written and oral communication and in analytical thinking.

Requirements for the B.A. Degree. The major requires a minimum of 33 hours of English courses, including no more than 12 hours at the 2000 level and below (of these hours, no more than three hours at the 1000 level) and at least 12 hours of 4000 level courses, distributed as follows:

A. Fundamentals (6 hours total):
   ENGL 2311 Poetry or **ENGL 2314** Doing Things With Poems
   ENGL 2315 Introduction to Literary Study
B. Reading Historically – one course at the 3000 or 4000 level from each group (12 hours):
   1. Medieval Literature (c. pre-1500)
   2. Early Modern Literature (c. 1500–1775)
   3. Literature in the Age of Revolutions (c. 1775–1900)
   4. Modern to Contemporary Literature (c. 1900–present)
C. Criticism and Theory (3 hours)
D. Major Electives (12 hours)

The following courses are not acceptable as major electives: ENGL 1300, 1301, 1302, 2302 and 2305.

Creative writing courses at the 4000 level do not fulfill the 4000-level literature requirement.

A grade of *C-* or better must be earned in all courses fulfilling major requirements, and English majors must attain a minimum GPA of 2.0 among all courses attempted for the major.

The department strongly recommends 12 hours of foreign language for all English majors. Students expecting to undertake graduate study in English should be advised that graduate schools require knowledge of at least one foreign language.

Secondary-school certification candidates must fulfill the departmental requirements described above. They should consult the departmental advisers on teacher training about further nondepartmental requirements for certification. (Revisions of these requirements may be mandated by the State of Texas; candidates should be alert to the possibilities of changes.)

Creative Writing Specialization Within the English Major. Students pursuing a creative writing specialization within the English major must fulfill all requirements for the English major. All 12 elective hours within the regular major will be devoted to courses selected from the list below. No more than 12 of these hours will be credited toward the requirements for the major, though additional English courses of all kinds are encouraged.

ENGL 2391 Introductory Poetry Writing
ENGL 2392 Introductory Fiction Writing
ENGL 3391 Intermediate Poetry Writing (*Prerequisite:* ENGL 2391 or permission of instructor)
ENGL 3392 Intermediate Fiction Writing (*Prerequisite:* ENGL 2392 or permission of instructor)
ENGL 4391 Advanced Poetry Writing (*Prerequisite:* ENGL 3391 or permission of instructor)
ENGL 4392 Advanced Fiction Writing (*Prerequisite:* ENGL 3392 or permission of instructor)
ENGL 4393, 4395 Directed Studies in Poetry Writing (*Prerequisite:* Permission of instructor)
ENGL 4394, 4396 Directed Studies in Fiction Writing (*Prerequisite:* Permission of instructor)
ENGL 4397 Craft of Poetry I (*Prerequisite:* ENGL 2391 or permission of instructor)
ENGL 4398 Craft of Fiction I (*Prerequisite:* ENGL 2392 or permission of instructor)

Students may apply to individual instructors for directed study in poetry or in fiction only if they have completed 12 hours in creative writing courses, with at least nine of those hours in the genre in which the student is applying.

The Departmental Distinction Program. This program is open to seniors by invitation. To enter the program, a student ordinarily must earn an overall GPA of at least 3.0 by the middle of the junior year, and a 3.5 average or better in courses fulfilling requirements for the major. Candidates for distinction must take ENGL 5310 Seminar in Literary Theory in the fall of the senior year. Candidates completing ENGL 5310 with a grade of *B+* or better will then choose from the following options: ENGL 5381 Independent Studies (culminating in a senior thesis); or a graduate proseminar in English numbered 6320–6380 (requires permission of instructor); or (for creative writing specialists only) ENGL 4393, 4395 Directed Studies in Poetry Writing or 4394, 4396 Directed Studies in Fiction Writing. Candidates must earn a *B+* or better in the option selected, and attain a 3.5 GPA in all

courses counting toward the major and distinction. ENGL 4393–4396, 5381, 5310 may not be used to satisfy the 12 hours required in 4000-level courses. A minimum of 36 hours is required to graduate with departmental distinction.

Requirements for the Minor in English. The minor in English requires 15 hours of coursework, no more than six of them in courses numbered below 3000. Minors must take ENGL 2311, 2314 or 2315. A grade of *C-* or better must be earned in each course taken to fulfill the requirement for the English minor. (Note: ENGL 1300, 1301, 1302, 2302 and 2305 may not be used to fulfill minor requirements.)

The Courses (ENGL)

The courses are numbered by the final two digits as follows.

Expository Writing (00–09)	1300; 1301; 1302; 2302; 2305; 2306; 2406; 3301; 3305; 3308; 5301; 5309
Criticism (10–19)	2310; 2311; 2312; 2313; 2314; 2315; 3310; 4310; 5310
Medieval (20–29)	1320; 3320; 3329; 4320; 4321; 4323
Early Modern (30–39)	1330; 3330; 3331; 3332; 3335; 4330; 4331; 4332; 4333; 4336; 4339
Age of Revolutions (40–49)	3340; 3341; 3344; 3345; 3346; 3347; 3348; 4340; 4341; 4343; 4345; 4346; 4349
Modern to Contemporary (50–69)	1360; 1362; 1363; 1365; 2361; 3350; 3354; 3355; 3359; 3360; 3362; 3363; 3364; 3365; 3366; 3367; 3368; 3375; 3376; 4350; 4351; 4356; 4360; 4369
Other Literature and Language Courses (70–89)	1370; 1380; 1385; 2371; 3189; 3370; 3371; 3373; 3374; 3376; 3377; 3378; 3379, 3380; 3381; 3382; 3383; 3389; 4370; 5378; 5381
Creative Writing (90–99)	2391; 2392; 3391; 3392; 4391; 4392; 4393; 4394; 4395; 4396; 4397; 4398

1300. Foundations for Rhetoric. Writing paragraphs and short, analytic, thesis-directed essays in response to texts. Work on reading comprehension, principles of effective sentence construction, and punctuation.

1301. Introduction to College Writing. The aims and processes of analytical-argumentative discourse. Understanding and evaluating sources. Use of MLA style. Students must earn *C-* or better.

1302. First-Year Seminar in Rhetoric: Contemporary Issues. Introduction to public intellectual life through inquiry into texts and discursive art. Multidisciplinary and multicultural. Analytical-argumentative writing. Research and oral communication components. Students must earn *C-* or better. *Prerequisite:* ENGL 1301.

1305. Perspectives of Thought. Focus on analytical writing while exploring major modes of interpreting the world and defining what constitutes knowledge in the 21st century. Restricted to Hilltop Scholars placing out of ENGL 1301.

Note: Courses numbered 1320–1385 have no prerequisites.

1320. Chivalry. The development of the ideal of chivalry from its origins in the medieval legends of King Arthur to modern literature.

1330. The World of Shakespeare. Introductory study of eight or nine of Shakespeare's important plays, placed in historical, intellectual and cultural contexts.

1360. The American Heroine: Fiction and Fact. Images of the American heroine in popular and traditional literature, studied in terms of their reflection of the evolving roles of American women.

1362. Crafty Worlds. An introductory study of selected 20th-century novels emphasizing both ideas of modernity and the historical or cultural contexts that generate these ideas.

1363. The Myth of the American West. The myth and reality of the American West as seen through key works of history, folklore and fiction, including study of the serious Western novel and the subliterary "western."

1365. Literature of Minorities. Representative works of African-American, Hispanic-American, gay, Asian-American and Native-American literature, both in their immediate cultural context and against the background of the larger American culture.

1370. Tragedy and the Family. The study of individual tragedies and kindred texts in various genres and from various periods.

1380. Introduction to Literature. An introduction to the study of literature including a range of literary genres and periods, varying by term.

1385. History of British Literature. A survey of the history of British literature, from its medieval beginnings to the 20th century.

2305. Interpreting, Understanding and Doubting. Insights from literature, linguistics, philosophy, psychology and science that explore major modes of interpreting the world in the 20th century and that define what constitutes knowledge in the 21st century. Open only to students in the University Honors Program.

2306. The Ethical, the Catastrophic and Human Responsibility. Study of ethical questions derived from history, literature, psychology, anthropology and philosophy, focused on what constitutes a meaningful life, historical challenges to the bases of ethics, racism, individual freedom and community responsibility. Open only to students in the University Honors Program. *Prerequisite:* ENGL 2305.

2406. Ethical Issues and Community Action. Exploration of major ethical ideas and problems through literary texts and testing, and reflecting upon them through practical involvement in the community. Requires a commitment of time to volunteer community activities. Open only to students in the University Honors Program. *Prerequisite:* ENGL 2305.

Note: ENGL 1301 or 2305 or departmental approval is a prerequisite for all courses listed below.

2302. Business Writing. Introduction to business and professional communication, including a variety of writing and speaking tasks, and the observation and practice of rhetorical strategies, discourse conventions, and ethical standards associated with workplace culture.

2310. Imagination and Interpretation. An introduction to literary studies based on topics that will vary from term to term.

2311. Poetry. Analysis, interpretation and appreciation of poetry, with attention to terms and issues relevant to the genre.

2312. Fiction. Analysis, interpretation and appreciation of fiction, with attention to terms and issues relevant to the genre.

2313. Drama. Analysis, interpretation and appreciation of dramatic works, with attention to terms and issues relevant to the genre.

2314. Doing Things With Poems. Introduction to the study of poems, poets and how poetry works, focusing on a wide range of English and American writers. Some attention to matters of literary history. Open only to students in the University Honors Program.

2315. Introduction to Literary Study. An introduction to the discipline for beginning English majors, covering methods of literary analysis in selected texts spanning a range of genres and historical periods.

2322. Guilty Pleasures. Examination of classic and not-so-classic detective fiction from Sophocles to the present, focusing primarily on 19th- and 20th-century British and American traditions. *Prerequisite:* ENGL 1301 or 2305 or departmental approval.

2361. Fortune, Fame and Scandal: The American Dream of Success. A survey of the pursuit of fame and fortune in classic American novels of business, politics, sports and show business, with attention to contemporary parallels.

2371 (ANTH 2321, CFA 3301). The Dawn of Wisdom: Ancient Creation Stories From Four Civilizations. The visions of the cosmos expressed in the art, archaeology and literature of Egyptian, Mesopotamian, Greco-Roman and Mayan civilizations, emphasizing the role of human beings as central and responsible actors therein.

2391. Introductory Poetry Writing. Workshop in which student poetry and directed exercises in basic techniques form the content of the course.

2392. Introductory Fiction Writing. Workshop in theory and technique and writing of fiction.

ENGL 1302, 2306 or departmental approval is a prerequisite for all of the courses listed below:

3189. Directed Studies. Directed readings in a coherent area of a student's choice to be approved by the director of Undergraduate Study and the instructor.

3301. Advanced Expository Writing. Emphasis on styles and formats appropriate to academic writing, and on individual problems and needs.

3305. Writing and the Public Intellectual. Study and practice of writing for a broad, well informed public, including history and current status of the public intellectual. Includes advanced practice in revising and editing expository prose.

3308. English Studies Internship. Work experience related to English studies, with instruction in professional communication. Workshop format and one-on-one consultation with instructor. *Prerequisite:* Open only to junior and senior English majors by permission of instructor.

3310. Contemporary Approaches to Literature, Language and Culture. Introduction to contemporary methods of interpreting literature and to linguistic, cultural and theoretical issues informing these methods. Readings of literary works to develop awareness of differences and limitations in approaches.

3320. Topics in Medieval Literature. Study of a theme, issue or topic in English literature from its beginnings to 1500, varying by term. May be repeated for credit under different subtitle.

3329 (CF 3302, MDVL 3329). The World of King Arthur. Study of Britain's greatest native hero and one of the world's most compelling story stocks: the legends of King Arthur and the Knights of the Round Table.

3330. Topics in Early Modern Literature. Study of a theme, issue or topic in writers from c. 1500 to 1775, varying by term. May be repeated for credit under different subtitle.

3331. British Literary History I: Chaucer to Pope. Introduction to earlier periods of English literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

3332. Shakespeare. Studies of Shakespeare's major works in context with English history, society and culture, including literary and theatrical conventions and practices. Topics vary by term; may be repeated for credit under different subtitle.

3335. Transatlantic Encounters I. Comparative studies in British and American literature during the early modern period (c. 1500–1775), with attention to issues of first contact, colonization and cultural interrelations. Topics vary by term; may be repeated for credit under different subtitle.

3340. Topics in British Literature in the Age of Revolutions. Study of a theme, issue or topic in British literature c. 1775–1900, varying by term. May be repeated for credit under different subtitle.

3341. British Literary History II: Wordsworth Through Yeats. Introduction to later periods of English literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

3344. Victorian Gender. The literature and social history of the period, exploring the perceived "truths" about gender that prevailed in 19th-century Britain and contrasting those "truths" with the responses of contemporaries as well as with the realities that contradict them.

3345. Transatlantic Encounters II. Comparative studies in British and American literature during the age of revolutions (c. 1775–1900), with attention to cultural interrelations during a period of rapid social change. Topics vary by term; may be repeated for credit under different subtitle.

3346. American Literary History I. Introduction to earlier periods of American literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

3347. Topics in American Literature in the Age of Revolutions. Study of a theme, issue or topic in American literature from c. 1775 to1900, varying by term. May be repeated for credit under different subtitle.

3348 (CFA 3374). History of the Book in America, 1620–1900. A multidisciplinary survey of print culture in the United States exploring literary, historical, technological, legal and sociological factors that shaped the formations, uses and dynamics of print in our society.

3350. Topics in Modern and Contemporary British Literature. Study of a theme, issue or topic in British literature from c. 1900 to the present, varying by term. May be repeated for credit under different subtitle.

3354. Non-Western Culture and Literature. Major 20th-century "third world" literary and cultural texts with emphasis on political and economic contexts of colonialism and post-colonialism.

3355. Transatlantic Encounters III. Comparative studies of British and American writing in the period of modern and contemporary literature (c. 1900 to the present), with attention to cultural interrelations during the period. Topics vary by term; may be repeated for credit under different subtitle.

3359 (CF 3359). American Narratives of Discovery. This course focuses on the generic process of culture, integrating methods from various disciplines. It considers aesthetic questions about how narratives engage in intercultural dialogue and ethical questions about the implications of ongoing American "discoveries" of the Southwest.

3360. Topics in Modern and Contemporary American Literature. Study of a theme, issue or topic in American literature from c. 1900 to the present, varying by term. May be repeated for credit under different subtitle.

3362. African-American Literature. Major African-American writers and their works, and various social and historical influences.

3363. Chicana/Chicano Literature. A broad examination of major 20th-century Mexican-American writers and their works in the context of various social, geographic, political and historical influences. Some knowledge of Spanish will be helpful to students, but is not a prerequisite for the course.

3364 (CF 3370, WGST 3370). Women and the Southwest. A study and exploration of women writers, artists and thinkers in the American Southwest and their vision of this region as singularly hospitable to women's culture.

3365 (CF 3398). Jewish-American Literature and Culture. An interdisciplinary introduction to Jewish culture through literature, especially in the American environment, as well as to the issues in studying any distinctive ethnic and cultural literature.

3366. American Literary History II. Introduction to later periods of American literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

3367 (CF 3364). Ethical Implications of Children's Literature. Examination of children's literature with emphasis on notions of morality and evil, including issues of colonialism, race, ethnicity, gender and class.

3368 (CFA 3378). Literary and Artistic Taos: The Town Seen Through Multiple Lenses. Survey of the literary and artistic heritage of early 20th-century Taos, centered on the Native Americans, the artistic and literary salon of Mabel Dodge, and D.H. Lawrence.

3370. Special Topics. Examination of a subject that includes material from a range of historical periods. Examples could include "Pastoral Literature," "Shakespeare in England

and India," and "Irony, Satire and Politics." Topics vary by term; may be repeated for credit under different subtitle.

3371 (CF 3363, HIST 3357). Joan of Arc: History, Literature and Film. The life and later reception of the extraordinary peasant girl, Joan of Arc (ca. 1412–1431), who in the two years before she was burned at the stake changed the course of European history.

3373 (FL 3359). Masculinities: Images and Perspectives. The representation of male sex roles in Western literature, from Achilles to James Bond. Open to juniors and seniors; sophomores by permission of instructor.

3374 (CF 3345). Literature of Religious Reflection. Issues of faith and doubt in British and American literature, drawn from texts reflecting Christian humanism, secular rationalism, individualistic romantic faith, and scientific modernism and other modern alternatives.

3375. Expatriate Writers: The Invention of Modernism. Introduction to the rise of literary modernism in early 20th-century Europe through selected readings of expatriate authors working in Paris.

3376. Literature of the Southwest. Nineteenth- and 20th-century Anglo, Hispanic and Native-American literature of the southwestern United States.

3377. Literature and the Construction of Homosexuality. Examination of same-sex desire in modern literature, as considered in the context of philosophical, religious and scientific texts since the ancient world.

3378. Studies in the English Language. Linguistic introduction to the history of English and to present-day American English as spoken and written. Topics include theory and description, basic grammatical structures, and their application to writing and regional and stylistic variation.

3379 (CFA 3379). Literary and Cultural Contexts of Disability: Gender, Care and Justice. An examination of disability as a cultural construct, with attention to how literary, ethical and political representations bear upon it, and in relation to gender, race and class issues.

3380 (CF 3380). The Literature of Vision. An examination of the ways in which prophets and imaginative writers have sought to communicate the source, content, and meaning of "things invisible to mortal sight," whether as a consummation of or a challenge to the leading ideas of their time.

3381. Semiotics of Culture. Analysis of form, technique and meaning in literary and textual representation, in comparison – or conjunction – with other representational media such as painting, photography and cinema. Topics will vary by term; may be repeated for credit under different subtitle.

3382. Heroic Visions: The Epic Poetry of Homer and Vergil. The literature of classical heroism in works by Homer and Vergil that influenced the epic traditions of English literature.

3383 (CF 3305). Literary Executions: Imagination and Capital Punishment. The literary treatment of capital punishment in drama, poetry, novel and biography.

3389. Directed Studies. Directed readings in a coherent area of a student's choice, to be approved by the director of Undergraduate Studies and the instructor.

3391. Intermediate Poetry Writing. *Prerequisite:* ENGL 2391 or permission of instructor.

3392. Intermediate Fiction Writing. *Prerequisite:* ENGL 2392 or permission of instructor.

Note: A total of 12 hours of English, including ENGL 2311 or 2314 and including ENGL 2315 (excluding 1300, 1301, 1302, 2302, 2305), or instructor's approval is prerequisite for all courses numbered 4310–4370.

4310. Studies in Literary Theory and Criticism. An advanced study of a theoretical or critical problem in literary study and interpretation. Topics could include questions of history, major theoretical movements and cultural studies. May be repeated for credit under different subtitle.

4320. Medieval Writers. Intensive study of one or two medieval writers. May be repeated for credit under different subtitle.

4321. Studies in Medieval Literature. Advanced study of medieval literature focused on a specified problem, topic or theme. May be repeated for credit under different subtitle.

4323. Chaucer. Advanced studies in the poetry of Geoffrey Chaucer in relation to historical contexts, medieval poetics and Middle English language. May be repeated for credit under different subtitle.

4330. Renaissance Writers. Intensive study of one or two major writers from the period in context with English social and cultural history. May be repeated for credit under different subtitle.

4331. Restoration and Enlightenment Writers. Intensive study of one or two major writers from the period. May be repeated for credit under different subtitle.

4332. Studies in Early Modern British Literature. Advanced study of British literature from c. 1500 to 1775, focused on a specified problem, topic or theme. May be repeated for credit under different subtitle.

4333. Shakespeare. Advanced studies in Shakespeare's poetry and plays, in historical, cultural and theatrical contexts. May be repeated for credit under different subtitle.

4336. Studies in Early Modern American Literature. Advanced study of American literature from c. 1500 to 1775, focused on a specified problem, topic or theme. May be repeated for credit under different subtitle.

4339. Transatlantic Studies I. Intensive study of a theme, genre or topic in trans-Atlantic literature in English from the early modern period (c. 1500–1775). May be repeated for credit under different subtitle.

4340. Romantic Writers. Intensive study of one or two major British writers from the period. May be repeated for credit under different subtitle.

4341. Victorian Writers. Intensive study of one or two major British writers from the period. May be repeated for credit under different subtitle.

4343. Studies in British Literature in the Age of Revolutions. Intensive study of British literature from c. 1775 to 1900, focused on a specified problem, topic or theme. May be repeated for credit under different subtitle.

4345. American Writers in the Age of Revolutions. Intensive study of one or two major writers from the period. May be repeated for credit under different subtitle.

4346. Studies in American Literature in the Age of Revolutions. Advanced study of American literature from c. 1775 to 1900, focused on a specified problem, topic or theme. May be repeated for credit under different subtitle.

4349. Transatlantic Studies II. Intensive study of a theme, genre or topic in trans-Atlantic literature in English during the age of revolutions (c. 1775–1900). May be repeated for credit under different subtitle.

4350. Modern and Contemporary British Writers. Intensive study of one or two major writers from the period. May be repeated for credit under different subtitle.

4351. Studies in Modern and Contemporary British Literature. Advanced study of British literature from c. 1900 to the present, focused on a specified problem, topic or theme. May be repeated for credit under different subtitle.

4356. Modern and Contemporary American Writers. Intensive study of one or two major writers from the period. May be repeated for credit under different subtitle.

4360. Studies in Modern and Contemporary American Literature. Advanced study of American literature from c. 1900 to the present, focused on a specified problem, topic or theme. May be repeated for credit under different subtitle.

4369. Transatlantic Studies III. Intensive study of a theme, genre or topic in trans-Atlantic literature in English from the modern to contemporary period (c. 1900–present). May be repeated for credit under different subtitle.

4370. Special Studies. Intensive study of a theme, genre or topic that includes material from a wide range of eras. May be repeated for credit under different subtitle.

4391. Advanced Poetry Writing. Advanced course for students seriously interested in the composition of poetry. *Prerequisite:* ENGL 3391 or permission of instructor. May be repeated for additional credit.

4392. Advanced Fiction Writing. Advanced course for students seriously interested in writing the short story or novel. *Prerequisite:* ENGL 3392 or permission of instructor. May be repeated for additional credit.

4393, 4395. Directed Studies in Poetry Writing. *Prerequisite:* Open only to advanced students by permission of instructor.

4394, 4396. Directed Studies in Fiction Writing. *Prerequisite:* Open only to advanced students by permission of instructor.

4397. Craft of Poetry. Examination of various readings for their usefulness from a poet's point of view. Emphasis on observation of technique rather than on interpretation. *Prerequisite:* ENGL 2391.

4398. Craft of Fiction. Examination of various readings for their usefulness from a fiction writer's point of view. Emphasis on observation of technique rather than on interpretation. *Prerequisite:* ENGL 2392.

5301. Discourse in the Social Sciences. History, characteristics and functions of scientific writing with a focus on the rhetoric of inquiry and science as persuasion. Practice in editing scientific prose. *Prerequisite:* Permission of instructor.

5309. Seminar in Teaching Writing. Contemporary theory and practice of teaching writing: discourse and rhetorical theory, conferencing and small-group work, designing composition curricula, writing in all disciplines. Special emphasis on argumentation and persuasion.

5310. Seminar in Literary Theory. A seminar for candidates for departmental distinction, designed to acquaint them with particular approaches to literature. *Prerequisite:* Permission of instructor.

5378. Linguistics: General. Introduction to the study of language as a part of human culture.

5381, 5382, 5383, 5384. Independent Studies. Directed readings in an area of the student's choice, to be approved by the director of Undergraduate Studies and the instructor. A substantial amount of critical writing will be required. *Open only to candidates for departmental distinction and to graduate students.*

ENVIRONMENTAL SCIENCE

www.smu.edu/esp

Associate Professor Bonnie Jacobs, **Director**

Coordinating Committee: Associate Professor and Director: Bonnie Jacobs (Earth Sciences). **Professors:** Michael Lattman (Chemistry), Larry Ruben (Biological Sciences), Robert Gregory (Earth Sciences). **Chemistry:** Professors: Edward Biehl, John Buynak, Michael Lattman, John Maguire, Mark Schell, Patty Wisian-Neilson. **Associate Professors:** Werner Horsthemke, David Son, Brent Sumerlin. **Earth Sciences: Professors:** David Blackwell, Robert Gregory, Eugene Herrin, Louis Jacobs, James Quick, Brian Stump, John Walther, Crayton Yapp. **Associate Professors:** Bonnie Jacobs, Neil J. Tabor. **Biological Sciences: Professors:** Christine Buchanan, Richard Jones, William Orr, Larry Ruben, John Ubelaker, Steven Vik. **Associate Professors:** Robert Harrod, Pia Vogel. **Assistant Professor:** James Waddle.

The natural systems that constitute Earth's environment are in continuous mutual interaction. These interactions occur on spatial scales that range from microscopic to global and on temporal scales that range from fractions of a second to millions of years. Scientific efforts to understand how the activities of humans affect the workings of such a complex arrangement must properly involve the identification and study of the fundamental processes operating at present in Earth's environment. Furthermore, to apply such knowledge with skill, insight and perspective, information must also be acquired on the extent to which ancient environmental conditions on Earth may have differed from those observed today and how such changes affected

life on the planet. An intellectual and practical scientific problem of such vast scope must be approached in an interdisciplinary manner. This interdisciplinary requirement is important not only for students who will become professional environmental scientists, but also for those who want a solid scientific foundation for post-graduate training in environmental law, public policy, business and other fields.

The program includes a set of core courses that provide the student with the necessary background in chemistry, earth science, physics, biology and mathematics to move into an earth science, chemistry or biology emphasis in the upper division courses. All environmental science majors will come together their senior year in a multidisciplinary seminar in environmental science. Juniors and seniors may do an internship (e.g., with an environmental lawyer, an assessment and remediation company or a nonprofit agency) for course credit and by special arrangement.

Requirements for the B.S. Degree. The environmental science major requires 68 total hours, consisting of 50 hours of core classes and 18 hours of electives taken with an emphasis in chemistry, earth science or biology.

Core Courses

(50 credit hours)

Biology (7 credits):

BIOL 1402 Introductory Biology II
BIOL 3307 (GEOL 3307) Ecology

Chemistry (15 or 16 credits):

CHEM 1303 General Chemistry I
CHEM 1113 General Chemistry I Laboratory
CHEM 1304 General Chemistry II
CHEM 1114 General Chemistry II Laboratory
CHEM 3371 Organic Chemistry I
CHEM 3117 Organic Chemistry I Laboratory
and either
CHEM 3372 *and* **3118** Organic Chemistry II *and* Organic Chemistry II Laboratory *or*
CHEM 3351 Quantitative Analysis

Earth Sciences (11 credits):

GEOL 1301 Earth Systems *or*
GEOL 1315 Introduction to Environmental Sciences
GEOL 3451 Earth Materials I
GEOL 3452 Earth Materials II

Environmental Science (3 credits):

GEOL 3363 Environmental Geology Seminar

Mathematics (6 credits):

MATH 1337 Calculus With Analytic Geometry I
MATH 1338 Calculus With Analytic Geometry II

Physics (8 credits):

PHYS 1303 Introductory Mechanics and
PHYS 1105 General Physics Laboratory I *or*
PHYS 1307 General Physics I *and*
PHYS 1105 General Physics Laboratory I *and*
PHYS 1304 Introductory Electricity and Magnetism *and*
PHYS 1106 General Physics Laboratory II *or*
PHYS 1308 General Physics II *and*
PHYS 1106 General Physics Laboratory II

Chemistry Emphasis, Upper-Division Courses
(18 credit hours)

Required (9 or 10 credits):

CHEM 3372 *and* **3118** Organic Chemistry II *and* Organic Chemistry II Laboratory *or*
CHEM 3351 Quantitative Analysis
CHEM 5381 Physical Chemistry *or* **5383** Physical Chemistry I

Electives (choose 9 or more credits):

CHEM 4397 Research
CHEM 5390 Environmental Chemistry
GEOL 3366 Environmental Geology and Geochemical Cycles
GEOL 5384 Hydrogeology
GEOL 5386 Geochemistry
GEOL 3353 Modern and Ancient Climates
ME 5317 Groundwater Hydrology and Contamination

Earth Sciences Emphasis, Upper-Division Electives
(18 credit hours)

CEE 3341 Introduction to Solid and Hazardous Waste Management
CHEM 3351 Quantitative Analysis
CHEM 3372 *and* **3118** Organic Chemistry II *and* Organic Chemistry II Laboratory
CHEM 5381 *or* **5383** Physical Chemistry *or* Physical Chemistry I
CHEM 5390 Environmental Chemistry
GEOL 3353 Modern and Ancient Climates
GEOL 3360 Process Geomorphology
GEOL 3366 Environmental Geology and Geochemical Cycles
GEOL 3369 Paleobiology
GEOL 3454 Structural Geology
GEOL 3472 Principles of Sedimentation
GEOL 4296 *and/or* **4298** Senior Thesis Research Project (up to 4 credits) *or* **GEOL 4321** Internship in Geoscience
GEOL 4390 Introduction to Geophysical Prospecting
GEOL 5368 Paleoecology
GEOL 5384 Hydrogeology
GEOL 5386 Geochemistry
ME 2342 Fluid Mechanics
STAT 2331 *or* **4340** Introduction to Statistical Methods *or* Statistical Methods for Engineers and Applied Scientists

Biology Emphasis
(18 credit hours)

Required (4 credits)

BIOL 1401 Introductory Biology I

Electives (choose 14 or more credits)

BIOL 3303 Evolution
BIOL 3304 Genetics
BIOL 3306 Physiology
BIOL 3311 Tropical Ecology and Sustainable Development (SMU-in-Costa Rica)
BIOL 3312 Wildlife Ecology (SMU-in-Kenya)
BIOL 3342 Plant Kingdom
BIOL 3343 Field Botany (Taos)
BIOL 3347 Systematic Botany (Taos)
GEOL 3353 Modern and Ancient Climates

BIOL 3354 Parasitology
BIOL 3357 Biology of the Invertebrates
BIOL 3403 Microbiology
BIOL 5166 Vertebrate Anatomy Lab (*Corequisite:* BIOL 5366)
BIOL 5366 Vertebrate Anatomy and Origins (*Corequisite:* BIOL 5166)
BIOL 5110 Biological Chemistry Lab (*Co-* or *Prerequisite:* BIOL 5310)
BIOL 5311 Biological Chemistry: Metabolism

SMU Abroad Courses (ENSC)

3100, 3200, 3300. Special Topics Abroad. Courses offered in SMU-approved international programs. Prior departmental approval is required. May be repeated for credit under different subtitle. A maximum of 6 credit hours may be applied toward the B.S. degree in environmental science.

3311. Principles of Resource Management. Class will introduce practical tools used in addressing complex environmental problems, including coastal zone planning, guidelines for ecologically sustainable development, environmental impact assessment, fisheries management, and protected area planning and management. (SMU-in-Costa Rica only)

3312. Directed Research. Scientific writing, oral, graphic and tabular presentation of results derived from experimental design, field techniques, basic descriptive statistics, and parametric and nonparametric quantitative analysis. (SMU-in-Costa Rica only)

3313. Techniques in Wildlife Management. Class will focus on the introduction of laboratory techniques for monitoring ungulate populations and optimizing management practices, while studying behavioral, physiological and social responses of animals to a changing environment. (SMU-in-Kenya only)

3316. Directed Research. Scientific writing, oral, graphic and tabular presentation of results derived from experimental design, field techniques, basic descriptive statistics, and parametric and nonparametric quantitative analysis. (SMU-in-Kenya only)

Internship Course

3322. Internship in Environmental Science. Students experience work in a business or organization concerned with environmental issues. Opportunities may be found in environmental law, assessment and remediation companies, or among nonprofit or government agencies.

ENVIRONMENTAL STUDIES

www.smu.edu/environmentalstudies

Associate Professor Bonnie Jacobs, **Director**

The B.A. in environmental studies provides students with the tools necessary to address society's environmental problems through careers in government, nongovernmental or educational organizations, public policy, business and related fields. It is an interdisciplinary program that incorporates courses from numerous departments and three schools around the University. The environmental studies major can be tailored to emphasize an area of interest (e.g., environmental biology, sustainability and globalization, environmental policy) and would be complemented by minors or other majors in environmental earth science, economics, business, environmental science, biology, anthropology, journalism, corporate communications and public affairs, advertising, sociology and many of the disciplines in the humanities and social sciences.

Requirements for the B.A. Degree. The environmental studies major requires 36 total hours, consisting of 21 hours of core classes and 15 hours of electives. The core classes provide the student with the appropriate concepts and tools to understand the scope of global, regional and local environmental issues.

Majors are strongly encouraged to take advantage of opportunities for study abroad and to seek relevant internships. Internship courses are offered in many departments and can be counted toward the major by petition.

Core Courses

BIOL/GEOL 3307 Ecology (*Prerequisite:* BIOL 1402 or permission of instructor)
GEOL 1301 Earth Systems or one 1000-level GEOL class of student's choice
GEOL 3353 Modern and Ancient Climates (*Prerequisite:* GEOL 1301 or permission of instructor)
HIST 3309 North American Environmental History
PP 3310 Environmental Policy
STAT 2331 Introduction to Statistical Methods (Dallas and SMU-in-Taos)
or **STAT 2301** Statistics for Modern Business Decisions (*Prerequisite:* CEE Math Fundamentals or equivalent)

A senior thesis is required, with a field, research or other practical component taken in a department relevant to the student's interests. For example:

ANTH 4391 *or* **4392** Independent Study (*Prerequisites:* Approval of the director of Undergraduate Studies and a faculty sponsor)
CCJN 5308 Honors Thesis
ECON 4398 Departmental Distinction in Economics (*Prerequisites:* 3.7 GPA in economics classes and 3.5 GPA overall, and approval of a faculty sponsor)
GEOL 4399 Integrative Research (*Prerequisite:* Permission of faculty adviser)

Elective Courses

A total of 15 credit hours required, a minimum three credit hours at 3000 level or above. In consultation with an academic adviser, choose at least one course from each group.

Natural Sciences and Statistics

(Minimum of 3 credit hours required)

BIOL 3303 Evolution (*Prerequisites:* BIOL 1401, 1402 and 3304)
BIOL 3308 Biology of Marine Mammals (SMU-in-Copenhagen) (*Prerequisites:* BIOL 1401 and 1402)
BIOL 3309 Marine Biology of European Coastal Waters (SMU-in-Copenhagen) (*Prerequisites:* BIOL 1401 and 1402; CHEM 1303 and 1113)
BIOL 3310 Ecology and Human Impact in the North and Baltic Seas (SMU-in-Copenhagen) (*Prerequisites:* BIOL 1401 and 1402; CHEM 1303 and 1113)
BIOL 3342 Plant Kingdom
BIOL 3343 Field Botany (SMU-in-Taos)
CEE 2421 Aquatic Chemistry (*Prerequisites:* CHEM 1303 and 1304)
ENSC 3313 Techniques in Wildlife Management (SMU-in-Kenya)
GEOL 3330 Resources and the Environment (*Prerequisite:* 1300-level course in earth sciences or permission of instructor)
GEOL 3340 Face of the Earth (*Prerequisite:* 1300-level course in earth sciences or permission of instructor)
GEOL 3359 Computer Methods in Geological Sciences (*Prerequisite:* Permission of instructor)
GEOL 3363 Environmental Geology Seminar (*Prerequisite:* 1300-level course in earth sciences or permission of instructor)
GEOL 3366 Environmental Geology and Geochemical Cycles (*Prerequisites:* High school algebra and chemistry and one 1300-level course in earth sciences)
GEOL 3472 Principles of Sedimentation (*Prerequisite:* Credit or registration for GEOL 3451, or permission of instructor)
GEOL 5370 Global Change (*Prerequisite:* GEOL 3340 or permission of instructor)

GEOL 5368 Paleoecology (*Prerequisite:* GEOL 3369 or permission of instructor)
GEOL 5384 Hydrogeology (*Prerequisites:* MATH 1338 and CHEM 1304, or permission of instructor)
STAT 3380 Environmental Statistics (*Prerequisite:* STAT 2301 or 2331, or equivalent)
STAT 5371 Experimental Statistics I (*Prerequisite:* Junior standing or permission of instructor)
STAT 5372 Experimental Statistics II (*Prerequisite:* STAT 5371)

Social Sciences and Humanities

(Minimum of 3 credit hours required)

ANTH 3319 Human Ecology
ANTH 3374 Cultures and Environments of the Southwest (Dallas and SMU-in-Taos)
ANTH 3384 Paradise Lost? The Archaeology and Ethics of Human Environmental Impacts (Dallas and SMU-in-Taos)
ANTH 3385 Sustainable Living
ANTH 4346 Environmental Anthropology (*Prerequisite:* ANTH 2301)
ECO 4366 Economics of the Public Sector (*Prerequisite:* ECO 1301)
ECO 4382 Economics of Regulated Industries (*Prerequisite:* ECO 3301)
ECO 5301 Environmental Economics (*Prerequisites:* ECO 3301 and 3302, or permission of instructor)
ECO 5360 Economic Development (*Prerequisites:* ECO 3301 and 3302, or equivalent courses)
ECO 5361 Natural Resources and Energy Economics (*Prerequisites:* ECO 3301 and 3302)
ENSC 3310 Economic and Ethical Issues in Sustainable Development (SMU-in-Costa Rica)
ENSC 3311 Principles of Resource Management (SMU-in-Costa Rica)
ENSC 3315 Environmental Policy and Socioeconomic Values (SMU-in-Kenya)
HIST 3318 Human History of Natural Disasters
PHIL 3377 Animal Rights
SOC 4321 Immigration and Population Issues (*Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312)

Business and Engineering

(Minimum of 3 credit hours required)

CEE 1302 Introduction to Civil and Environmental Engineering
CEE 2304 Introduction to Environmental Engineering and Science (*Prerequisites:* CHEM 1303 and MATH 1338)
CEE 3341 Introduction to Solid and Hazardous Waste Management (*Prerequisites:* CEE 2304 and 2421)
CEE 3355 Environmental Impact Evaluation, Policy, and Regulation (*Prerequisite:* CEE 2304)
CEE 5325 Disaster Management
MNO 3375 Corporate Ethics and Organizational Responsibility (*Prerequisite:* MNO 3370 for Cox majors and minors only)
MNO 4371 Leadership and Culture (*Prerequisite:* MNO 3370; for non-Cox students, approval of Cox B.B.A. Advising Office, junior standing and two courses in psychology or sociology may be substituted for the prerequisite)

SMU Abroad Courses (ENST)

3100, 3200, 3300. Special Topics Abroad. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. Maximum of 6 credit hours permissible toward the B.A. in environmental studies.

3310. Economic and Ethical Issues in Sustainable Development. Class will address and apply principles of ecological economics to assess the sustainability of development models at the micro and macro level. Basic concepts of ecological economics cost-benefit valuation

techniques will be presented and applied to the local people, government and aid agencies for the implementation of sustainable development models. (SMU-in-Costa Rica only)

3312. Directed Research. (SMU-in-Costa Rica)

3315. Environmental Policy and Socioeconomic Values. Class will introduce students to the major constituencies that affect African conservation (nongovernmental conservation groups, economic interests, etc.) and their underlying philosophies. Students will learn to determine effective approaches to resource management. (SMU-in-Kenya only)

3316. Directed Research. (SMU-in-Kenya)

ETHNIC STUDIES

smu.edu/catalogs/undergrad/dedman/ethnic.asp

Professor Kenneth Hamilton, **Director**

The Ethnic Studies Program offers an interdisciplinary program that examines the African-American and Mexican-American experiences through the social sciences and humanities. The program offers instruction in important periods of African, Mexican and American history, probing the roots of traditions beginning in early African and pre-Columbian cultures, as well as examining minorities in contemporary U.S. society.

This program provides good preparation for graduate work in the social sciences, the humanities, and professional schools, as well as jobs and careers in many fields. Education, law, journalism, urban planning, business, social work and politics are a few of the fields for which ethnic studies provides a strong background.

Requirements for Majors and Minors. The following options are offered under the Ethnic Studies Program:

- The major leading to the B.A. in ethnic studies with specialization in either African and African-American studies (33 hours) or Mexican-American studies (34 hours).
- The major leading to the B.S. in ethnic studies with specialization in either African and African-American studies (36 hours) or Mexican-American studies (37 hours).
- The minor in African and African-American studies (18 hours).
- The minor in Mexican-American studies (19 hours).

Courses to fulfill the requirements for the above should be selected in consultation with the director.

I. **Bachelor of Arts.** The B.A. option focuses more on the humanities than on the social sciences and, consequently, requires less work in methodology and statistics.
   A. **Foundation.** A total of 6 hours required of all students majoring in ethnic studies.
      ETST 2301 Race and Ethnicity in the United States (Colisted **SOCI 3305** and **CFA 3310**)
      SOCI 3370 Minority-Dominant Relations
   B. **Basic Courses.** A total of 18 hours comprised of the minor in African and African-American studies, and 19 hours comprised of the minor in Mexican-American studies form the basis of the ethnic studies major.
      1. African and African-American studies minor (9 of the 18 hours required must be at the 3000 level or above):
         a. Nine hours of core courses are required.
            HIST 2392 Modern Africa
            HIST 3313 African Americans in the United States, 1607 to 1877
            HIST 3314 African Americans in the United States, 1877 to the Present

b. A total of 9 hours of additional basic courses, of which six must be outside history.
ANTH 3314 Peoples of Africa
ARHS 3390 Traditional Arts of Africa
ENGL 3362 African-American Literature
HIST 2391 Africa to the 19th Century
HIST 3304 Blacks and the Civil Rights Movement
HIST 3378 Problems in African History
HIST 3388 The African-American Urban Experience, 1865–1980
HIST 5341 Seminar in American History: African Slavery in the U.S.
MUHI 3340 Jazz: Tradition and Transformation

2. Mexican-American studies minor (10 of the 19 hours required must be at the 3000 level or above):
a. A total of 10 hours of core courses are required.
ETST 4352 Conversations and Community (Colisted SPAN 4352)
HIST 3324 The Mexican Americans, 1848 to the Present
SOCI 3372 Chicanos in the Southwest
SPAN 1401 Beginning Spanish (or higher level)
b. A total of 9 hours of additional basic courses selected from the following:
ANTH 3312 Meso-American Archaeology
ARHS 3383 The Ancient Maya
ARHS 3385 The Aztecs Before and After the Conquest: Mesoamerica, 1400–1600
ENGL 3363 Chicana/Chicano Literature
FL 3306 The Heart of Aztlán: Chicano Literature of the Southwest
HIST 3305 The Hispanos of New Mexico, 1848 to the Present
HIST 3308 History of Hispanics in the U.S. Through Film
HIST 3382 History of Mexico
HIST 5330, 5331 Seminar in Mexican-American History

C. **Cross-Cultural Requirement.** Ethnic studies majors in the African and African-American option are required to take 3 hours in Mexican-American studies. Majors in the Mexican-American studies option are required to take 3 hours in African-American studies.

D. **Supporting Courses.** A total of 6 hours of other courses related to ethnicity must be selected from the following:
ANTH 3353 Indians of North America
ANTH 3361 Language in Culture and Society
ANTH 3368 (SOCI 3368) Urban Life: A Cross-Cultural Perspective
ENGL 1365 Literature of Minorities
ENGL 3354 Non-Western Culture and Literature
ENGL 3365 (CF 3398) Jewish-American Literature and Culture
ETST 2305 Internship in Ethnic Studies
HIST 2380 Ethnic Regions in the Western World
PLSC 4337 Civil Rights
RELI 3324 The Jewish Experience in America

II. **Bachelor of Science.** A total of 36 hours are required to complete the B.S. option in African and African-American studies, and 37 hours are required to complete the B.S. option in Mexican-American studies. The same pattern of courses is required as for the B.A. degree, with the addition of 6 hours of required methods courses, three of which may substitute for 3 hours of supporting courses:

SOCI 3311 Qualitative Research Methods
STAT 2301 Statistics for Modern Business Decisions *or*
STAT 2331 Introduction to Statistical Methods

The Courses (ETST)

2301 (SOCI 3305, CFA 3310). Race and Ethnicity in the United States. An interdisciplinary seminar designed to introduce students to the analysis of race and ethnicity in the United States within a global context. No prerequisites.

2305. Internship in Ethnic Studies. This course offers students experience in varied careers serving ethnic communities. Opportunities include advertising for public service, community organizing, nonprofit economic development, local historical preservation and more. Department consent.

4352 (SPAN 4352). Conversations and Community. Advanced Spanish course that brings oral and written language to the center of students' learning by bringing them in contact with native Spanish speakers from a variety of Dallas communities. Field work, away from campus, will include a maximum of 2 hours per week in addition to the required three contact hours in the classroom. *Prerequisites: C-* or better in SPAN 2302 and approval of instructor for language majors. Approval of instructor for all other candidates.

EVENING DEGREE PROGRAM

www.smu.edu/dedman/eveningstudies

The Evening Degree Program offers multidisciplinary Bachelor of Humanities and Bachelor of Social Sciences degrees for students who wish to complete their undergraduate education in the evening on a part-time basis and who were admitted to the program prior to fall 2009.

Bachelor of Humanities. The B.H. degree requires the completion of 36 term hours in coursework taken from art history, English literature, history, philosophy and/or religious studies. Courses are selected in consultation with the major adviser and include the following:

- First concentration (15 term hours, including 6 hours advanced).
- Second concentration (9 term hours, including 6 hours advanced).
- Third concentration (9 term hours, including 6 hours advanced).
- Fourth concentration (3 term hours).

Bachelor of Social Sciences. The B.S.S. degree requires the completion of 36 term hours in coursework taken from anthropology, economics, political science, psychology and/or sociology. Courses are selected in consultation with the major adviser and include the following:

- First concentration (15 term hours, including 6 hours advanced).
- Second concentration (9 term hours, including 6 hours advanced).
- Third concentration (9 term hours, including 6 hours advanced).
- Fourth concentration (3 term hours).

As of fall 2009, SMU is no longer accepting students into the Evening Degree Program. For more information concerning program requirements, contact the Dedman College Dean's Office, Southern Methodist University, 214 Dallas Hall, PO Box 750235, Dallas TX 75275-0235; phone 214-768-2298.

FOREIGN LANGUAGES AND LITERATURES

fllc.smu.edu

Associate Professor Marie-Luise Gättens, **Department Chair**

French: Associate Professors: William Beauchamp, Dayna Oscherwitz. **Assistant Professors:** Barbara Abad, Hervé Tchumkam. **Senior Lecturer:** Rita Winandy. **Lecturers:** Gwen Aaron, Denis Bettaver, Paola Buckley, Heather Garrett-Pelletier, Martine Kincaid. **Adjunct Lecturer:** Kathleen Hugley-Cook. **Chinese: Lecturers:** Yan Xia, Xiaoshen Zhang. **Adjunct Lecturers:** Jian Min, Yun Shi. **German: Associate Professors:** Gordon Birrell, Marie-Luise Gättens. **Hindi: Adjunct Lecturer:** Manju Bansal. **Italian: Lecturers:** Brandy Alvarez,

Damiano Bonuomo, Teresa Brentegani. **Adjunct Lecturer:** Maria Patel. **Japanese: Lecturer:** Keiko Schneider. **Latin: Adjunct Lecturer:** Patti Rawlins. **Russian: Adjunct Lecturer:** Tatiana Zimakova. **Spanish: Associate Professors:** Olga Colbert, Denise DuPont, Francisco Morán, Luis Maldonado-Peña, Elizabeth Russ. **Assistant Professors:** Alberto Pastor, Rubén Sánchez-Godoy, Gabriela Vokic, Alicia Zuese. **Senior Lecturers:** Verónica León, Betty Nelson. **Lecturers:** Miroslava Detcheva, Maria Eguez, Susana Fernandez-Solera, David Rex Galindo, Linda Koski, Gabriel Martinez-Serna, Leticia McDoniel, Angie Morón-Nozaleda, Luis Polanco, Elizabeth Rojas-Auda, Daniel Wiegman. **Adjunct Lecturers:** Gabriel Guillen, George Henson, Gabriel Martinez-Serna.

The B.A. degree is offered in French, German, Italian area studies, Spanish and foreign languages.

Academic minors are available in Chinese, French, German, Italian, Italian area studies, Japanese, Latin, Russian area studies and Spanish.

Requirements for Departmental Distinction

1. Overall 3.5 GPA by the middle of the junior year.
2. Overall 3.7 GPA in the major by the middle of the junior year.
3. Invitation of area faculty after the area as a whole has discussed the student's candidacy.
4. Two extra courses beyond the requirements for the major. One course must include a major research paper, to be undertaken and completed in the first term of the candidate's senior year.

B.A. in Foreign Languages

Students wishing to specialize in two foreign languages may receive the B.A. degree in foreign languages by completing the requirements for the minor plus two additional advanced courses in one language, and by completing the requirements for the minor in a second language. Courses are to be selected in consultation with the major adviser in the first language. Minors in area studies may not be applied to this major. The first language must be chosen from French, German, Italian or Spanish.

Chinese

Requirements for the Minor in Chinese. A total of 17 hours, including 14 hours of language training, beginning with the intermediate level or higher, as well as one course in Chinese culture, history or literature, as follows:

1. **CHIN 2401** and **2402.**
2. Two courses from the following: **CHIN 3311, 3312, 4381** and **4382**.
3. One course from the following list of supporting courses: **CHIN 4381, 4382; FL 3310, 3312, 3325, 3395, 3397, 3398; HIST 3393, 3395, 3398; RELI 3377, 3378.**

Students taking CHIN 4381 and 4382 for the language component of the requirement must take another course from the list of supporting courses. Students testing into any course above 2402 will have to earn nine hours in SMU credit (six hours in Chinese language and three hours in Chinese culture) in order to receive the minor in Chinese. Study with SMU-in-China's summer program is strongly recommended.

The Courses (CHIN)

1401, 1402. Beginning Chinese. Introduction to spoken and written Mandarin Chinese. Course emphasizes intensive drills in sounds and tones, sentence structure, and a vocabulary of 500 characters. Students attend three weekly master classes plus two hours of practice in small groups. Computer, video and audio assignments are required. Four credits per term. *Prerequisite for 1402: C-* or better in 1401 or permission of area chair.

2401, 2402. Intermediate Chinese. Enhances basic language skills learned in Beginning Chinese but focuses on language proficiency, particularly in the areas of description, narration, correspondence and comparisons based on situational context. Students attend four weekly classes. Video and audio materials are used. Four credits per term. *Prerequisite for*

2401: C- or better in CHIN 1402 or permission of area chair. *Prerequisite for 2402: C-* or better in CHIN 2401 or permission of area chair.

3311. Advanced Chinese. Emphasizes the requirement of skills in Mandarin Chinese through the study of selected topics in contemporary Chinese culture and society. Students develop the ability to express themselves in sustained oral and written forms. *Prerequisites:* Beginning and intermediate Chinese or permission of area chair.

3312. Advanced Chinese. (second term) Enhances students' proficiency in Mandarin Chinese through a multimedia software program. Special concentration is given to China's current affairs through the use of authentic journalistic materials – television news and newspaper reports. *Prerequisite:* CHIN 3311.

4185, 4285, 4385. Internship in Chinese. Offers students experience in organizations where knowledge of Chinese and the cultures of Chinese-speaking countries is relevant: Corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in Chinese of 3.3 or higher; and sponsorship of a professor and the organization, agency or corporation.

4381. Readings in Chinese Literature and Culture. An upper-level course designed for students who have finished third-year Chinese. Students will enhance all four language skills, especially reading and writing, through a wide variety of primary, unedited texts. *Prerequisite:* CHIN 3312 or permission of area chair.

4382. Chinese Culture and Society in Film. An upper-level course designed for students who have completed third-year Chinese. Enhancement of all four language skills through original unedited texts and films from China and Taiwan. *Prerequisite:* CHIN 3312 or permission of area chair.

Foreign Literature Courses in English

See course descriptions at the end of the Foreign Languages and Literatures section.

FL 3310 Transnational Chinese Cinema
FL 3312 Women in Modern China
FL 3325 Perspectives on Modern China
FL 3395 A Cultural Journey to China

French

All courses are conducted in French.

Requirements for the B.A. Degree in French. A total of 28 hours in advanced French courses, beginning at the 3000 level. Courses are to be selected in consultation with the major adviser and must include the following:

1. **FREN 3455, 3356, 4370.**
2. Any two courses chosen from among **FREN 4371, 4372, 4373, 4374, 4375, 4376.**
3. Six hours of 5000-level courses.
4. Six elective hours at either the 4000 or 5000 level.

Study with SMU-in-Paris and/or SMU-in-the-South of France is strongly recommended.
Requirements for the Minor in French: A total of 20 hours, including:

1. **FREN 2401** or the equivalent.
2. Sixteen advanced hours: **FREN 3455, 3356, 4370** and two additional courses at the 4000 level.

The Courses (FREN)

Language Courses

1401, 1402. Beginning French. Stresses acquisition of basic skills: speaking, listening comprehension, reading and writing. Five classes per week. Four credits per term. *Prerequisite for 1402: C-* or better in 1401 or permission of area chair.

2201. France Today: Culture, Society, Daily Life. In conjunction with FREN 2401, a systematic exploration of diverse aspects of French life, involving both classroom study and on-site investigation. Emphasis on contextual language acquisition, both written and oral. *Prerequisite:* Permission of program director. (SMU-in-the-South of France only)

2401. Intermediate French. Continues to strengthen the four language skills, with added emphasis on reading and writing. Five classes per week. Four credits per term. *Prerequisite: C-* or better in FREN 1402 or permission of area chair.

3356. Advanced French II. Refinement of all four language skills. Special emphasis on writing proficiency, particularly in the following areas: exposition, narration, description, correspondence and literary analysis. Includes grammar review, oral presentations, dictionary research and outside reading. *Prerequisite: C-* or better in FREN 3455.

3455. Advanced French I. Refinement of all four language skills, with special emphasis on oral proficiency. Includes study of phonetics, oral presentations, viewing and discussion of films, vocabulary development, grammar review, short literary readings and compositions. Five classes per week. Four credits per term. *Prerequisite: C-* or better in FREN 2401.

4103. Advanced Readings in French. Optional one-hour credit open to students simultaneously enrolled in CF 3349, FL 3349 or HIST 3392. This class is for students proficient in French who would like to have one hour a week of class to read some course materials in original French, as well as to discuss and write about them in French. *Corequisite:* FL 3349/CF 3349/HIST 3392; *Prerequisite: C-* or better in FREN 4370 or equivalent and consent of instructor.

4185, 4285, 4385. Internship in French. This course offers students experience in organizations where knowledge of French and the cultures of French-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in French of 3.3 or higher; and sponsorship of a professor and the organization, agency or corporation.

4355. Advanced Spoken French. Focus on development of both oral and aural skills. Development of topic-specific vocabulary; readings and discussion of texts and commentaries on contemporary French society and culture; viewing and discussion of feature films. *Prerequisites: C-* or better in FREN 3455 and 3356.

4356. Advanced Communication Skills: The French-Language Media. An exploration of the many countries and regions of the French-speaking world through the use of films, videos and the Internet, as well as expository texts from the French-language press and other media. Development of listening and reading comprehension, advanced conversational skills, and writing of short expository texts. *Prerequisites: C-* or better in FREN 3455 and 3356.

4357. French Stylistics. Intensive hands-on study of advanced grammatical, syntactic, lexical and rhetorical features of written (and formal spoken) French. Comparison of standard French and English styles. French-English and English-French translation. *Prerequisites: C-* or better in French 3455 and 3356.

Literature and Culture Courses

4365. Introduction to French Cinema. An introduction to French cinema's major works, filmmakers and trends with a continued emphasis on improvement of advanced French language skills. *Prerequisites: C-* or better in FREN 3356 and 4370, or permission of instructor and French area chair.

4370. Introduction to the Analysis of French and Francophone Texts. Strategies for interpreting French and Francophone written and filmic texts. Focus on the principal genres: poetry, prose narrative, essay. *Prerequisites: C-* or better in FREN 3455 and 3356.

4371. Survey of French Literature: From the Middle Ages to the Revolution. Overview of French literary history from the beginning to the end of the 18th century. Selection of texts from major dramatists, poets and prose writers. *Prerequisites: C-* or better in French 3455, 3356 and 4370.

4372. Survey of Literature in French: From Romanticism to the Present. Overview of French and Francophone literary history from the beginning of the 19th century to the present day. Selection of texts from major dramatists, poets and writers of prose fiction. *Prerequisites: C-* or better in French 3455, 3356 and 4370.

4373, 4374. French Civilization. The evolution of French society, with emphasis on cultural, artistic and intellectual trends. *Prerequisites: C-* or better in FREN 3455 and 3356. (SMU-in-Paris and SMU-in-the-South of France only)

4375. Introduction to French History and Culture. Survey of French political and cultural history from Roman Gaul to the Fifth Republic. Characteristic institutions, social groups and individuals. Key cultural myths. *Prerequisites: C-* or better in French 3455, 3356 and 4370.

4376. Introduction to Francophone Cultures. Introduction to cultures once colonized by France. An exploration of the history and impact of French colonization on North America, Africa and the Caribbean, and the relationship between these regions and France. *Prerequisites: C-* or better in French 3455, 3356 and 4370.

4391. Commercial French for International Trade. An advanced course for international trade and communication. *Prerequisites: C-* or better in FREN 3455 and 3356.

5180. Independent Study. *Prerequisite:* Instructor consent required.

5320, 5321. Literary Periods. The study of a variety of authors and works with respect to the ways in which they define and reflect the literary, political and social aspects of a given historical period. Specific topics vary. *Prerequisites: C-* or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

5334, 5335. Genre Studies. The examination of the works of several authors as a means of understanding the nature and evolution of a particular genre. Specific topics vary. *Prerequisites: C-* or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

5344, 5345. Literary Movements. The exploration of the conventions that shape a specific movement through a reading of representative texts by various authors. Specific topics vary. *Prerequisites: C-* or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

5350, 5351. Problems in French Literature. The definition of a particular theme as elaborated by a group of writers, usually covering different time periods and genres. Specific topics vary. *Prerequisites: C-* or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

5361. Literary Translation: Theory and Practice. Explores the relationship between interpretation and translation. Individual projects in a workshop setting. *Prerequisites: C-* or better in FREN 4371 and 4372.

5365, 5366. Topics in French and Francophone Cinema. A seminar in French and Francophone film studies. Topic varies. *Prerequisites: C-* or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

5367, 5368. Major Authors. Focused study of one especially important writer/thinker whose work has had a major impact on French and European literature and thought. Examples: Montaigne, Rousseau, Balzac, Sartre, etc. *Prerequisites: C-* or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

5380, 5381. Tutorial for Juniors and Seniors. By invitation of the entire area only. Special project set up with the help of the area chair. *Prerequisites:* Permission of department.

Foreign Literature Courses in English

See course descriptions at the end of the Foreign Languages and Literatures section. These courses do not count toward the French major. They are electives.

FL 3361 Special Topics: French Literature in Translation (SMU-in-Paris only)
FL 3365, 3366 Special Topics: French Literature in Translation

German

All courses are conducted in German.

Requirements for the B.A. Degree. At total of 24 hours of courses at the 3000 level and above. Courses are to be selected in consultation with the major adviser and must include the following:

1. Proficiency in written and spoken German demonstrated by coursework in **GERM 3311** Talking and Writing About Modern Germany.
2. **GERM 3320** Contemporary German Culture.
3. Six advanced courses to be selected in consultation with the major adviser.

Study in the SMU-in-Weimar summer program or in an approved term or junior-year program in a German-speaking country is highly recommended. Suggested electives outside the German area: a second foreign language; literary criticism; other foreign literature in translation; English and American literature; courses in linguistics, semiotics or philology; courses in German art history, philosophy or history.

Requirements for the Minor in German. At total of 18 hours of German as follows:

1. **GERM 2311, 2312.**
2. **GERM 3311.**
3. Three additional advanced courses to be selected in consultation with the adviser.

The Courses (GERM)

1101. Conversational Practice in German. An introduction to the German sound system and systematic practice of simple speech patterns.

1303. Basic Conversation. Systematic description of speech patterns and of carefully designed discussion models for students with no prior knowledge of German.

1401, 1402. Beginning German. Stresses acquisition of basic skills: Speaking, aural comprehension, reading and writing. Classes meet five hours a week. Four credits per term. *Prerequisite for 1402: C-* or better in GERM 1401 or permission of area chair.

2101. Conversational Practice in German. Systematic practice of speech patterns and simple discussion models as well as rapidity drills and free delivery practice. *Prerequisite:* GERM 1402 or the equivalent, or permission of instructor.

2311, 2312. Culture, Grammar, Literature. Second-year German. Discussions and compositions based on literary and cultural texts. Review of grammar. Language laboratory. Prerequisite for 2311: *C-* or better in GERM 1402 or permission of area chair. *Prerequisite for 2312: C-* or better in GERM 2311 or permission of area chair.

3311. Talking and Writing About Modern Germany. An advanced course intended to increase active command of the language. Utilizes a variety of short modern texts. *Prerequisite: C-* or better in GERM 2312 or the equivalent.

3313. Germany Today: People, Culture, Society. Explores current German culture; readings in newspapers and magazines to acquaint students with today's German cultural and political scene; conversations, oral presentations and compositions. *Prerequisite: C-* or better in GERM 3311, or permission of instructor.

3325. Introduction to German Literature. Works from major genres (lyric poetry, drama, narrative fiction); overview of the history of German literature; introduction to analytical techniques and procedures. Course is taught in German. *Prerequisite: C-* or better in GERM 3311, or permission of instructor.

3370. Advanced German Grammar and Usage. Intensive study of advanced grammatical forms, syntactical structures and usage distinctions in modern German. Weekly short written assignments. Course is not open to native speakers of the language. *Prerequisite: C-* or better in GERM 3311 or permission of instructor.

4185, 4285, 4385. Internship in German. Offers students experience in organizations where knowledge of German and the cultures of German-speaking countries is relevant: Corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in German of 3.3 or higher; and sponsorship of a professor and the organization, agency or corporation.

German Literature Courses

3320. Contemporary German Culture. An exploration of the German cultural scene through magazine and newspaper articles, short stories, television and films from the post-war era to the present. *Prerequisite: C-* or better in GERM 3311 or permission of instructor.

3330. Great German Stories: Kafka, Mann, Wolf and Others. Short narrative forms from the beginning of the 20th century to the present: Mann, Kafka, Brecht, Böll, Seghers, Bachmann, Wolf and others. Includes consideration of two post-war German literatures (the German Democratic Republic and the Federal Republic). *Prerequisite: C-* or better in GERM 3311 or permission of instructor.

4310. Middle Ages to Present: German Poetry. Historical survey of poetic forms from medieval Minnesang through the Baroque and Sturm und Drang to classicism, romanticism and 20th-century styles. *Prerequisite: C-* or better in GERM 3320 or 3313, or permission of instructor.

4320. Modern Drama. Critical reading of dramatic works by major German, Austrian and Swiss authors, with some attention to critical theory: Büchner, Schnitzler, Brecht, Dürrenmatt, Aichinger, Bachmann, Müller, Jelinek and others. *Prerequisite: C-* or better in GERM 3320 or 3313, or permission of instructor.

4330. Nineteenth-Century Stories, Fairy Tales and Novellas. Short narrative forms from romanticism through realism to fin-de-siècle Vienna: Grimm, Eichendorff, Kleist, Storm, Schnitzler and others. *Prerequisite: C-* or better in GERM 3320 or 3313 or permission of instructor.

4340. Great Plays for Listening. Selections from conventional to experimental post-war plays by Böll, Dürrenmatt, Aichinger, Mayröcker and others. *Prerequisite: C-* or better in GERM 3320 or 3313 or permission of instructor.

4350. History, Culture and Identity in Post-War German Film. An examination of German films since 1945 from both German states, ending with the depiction of the unification in film, with continued emphasis on improvement of advanced German language skills. *Prerequisite: C-* or better in GERM 3320.

4360. Childhood and Youth in German Literature and Film. The course traces the representation of childhood and youth through German literature and film from the 19th century to the present. *Prerequisite:* GERM 3320 or 3330.

5310. Reading the Classics. Narrative, poetry and drama representing the German Enlightenment, Sturm und Drang, classicism and romanticism: Lessing, Goethe, Schiller, Kleist, Novalis and others. *Prerequisite: C-* or better in any 4000-level course or permission of instructor.

5330. Problems With the Self. Poems, essays and novellas dealing with the perception of self in various periods of German literature. Goethe, Bettina von Arnim, Büchner, Mann and others. *Prerequisite: C-* or better in any 4000-level course or permission of instructor.

5380. Directed Studies. Permission of department.

Culture and Literature Courses in English

See course descriptions at the end of the Foreign Languages and Literatures section.

FL 3369 Perspectives on Modern Germany

Hindi (HIN)

1401, 1402. Beginning Hindi. Introduction to standard Hindi. Emphasizes intensive drills on speaking and listening with special attention to individual pronunciation and intonation. Reading and writing in the Hindi writing system (Devanagari) will be introduced and studied. *Prerequisite for 1402: C-* or better in 1401 or permission of area adviser.

2401, 2402. Intermediate Hindi. Emphasizes intensive speaking and listening drills with special attention to individuals, along with reading and writing in the Devanagari system. Hindi grammar and syntax will be reviewed and reinforced. *Prerequisite for 2401:* At least a *C-* in Hindi 1402. *Prerequisite for 2402:* At least a *C-* in Hindi 2401.

Italian

All courses are conducted in Italian unless otherwise noted.

Requirements for the B.A. Degree in Italian Area Studies. A total of 27 hours, of which 15 must be in courses in Italian at the 3000 level and higher. Courses are to be selected in consultation with the major adviser and must include the following:

1. **ITAL 3355** Advanced Italian Conversation.
2. **ITAL 3357** Italian Grammar and Composition or **ITAL 3373** Italian Culture.
3. Nine hours in advanced courses at the 4000 level, including **ITAL 4324** Contemporary Italian Literature.

4. Six hours of Italian literature-in-translation courses or FL courses in Italian culture or Italian cinema.
5. Six hours of approved area-studies courses.

Study with an SMU-approved program in Italy is strongly recommended. A second modern foreign language and/or Latin is also recommended.

Requirements for the Minor in Italian. A total of 20 hours, including ITAL 2401, 2402 and 12 advanced hours as follows:

1. **ITAL 3355.**
2. **ITAL 3357** *or* **ITAL 3373.**
3. **ITAL 3373.**
4. Two additional advanced Italian courses (4000 level) selected in consultation with the adviser.

Requirements for the Minor in Italian Area Studies. A total of 20 hours, including ITAL 2401, 2402 and the following advanced or supporting courses:

1. **ITAL 3355.**
2. **ITAL 3357.**
3. **ITAL 3373.**
4. One additional advanced Italian course (4000 level) chosen in consultation with the adviser.
5. One area-studies course chosen in consultation with the adviser from the following: **FL 2395, 3390, 3391, 3392, 3393, 3394; ARHS 3312, 3314, 3331, 3332; HIST 3351, 3358, 3359, 3361, 3365, 3366, 3376.**

The Courses (ITAL)

1401, 1402. Beginning Italian. Stresses acquisition of basic skills, speaking, aural comprehension, reading and writing. Students attend three weekly foundations classes plus two hours of applications classes for practice in small groups. Computer, video and audio assignments in the Foreign Language Learning Center are required. Four credits per term. *Prerequisite for 1402: C-* or better in 1401 or permission of area chair.

2401, 2402. Intermediate Italian. Strengthening and practice of all four language skills in Italian (listening, speaking, reading, writing). Computer, video and audio assignments are required. *Prerequisite: C-* or better in ITAL 1402 or permission of area chair.

3355. Advanced Italian Conversation. An advanced course for majors and non-majors intended to improve linguistic proficiency within the context of studying Italian contemporary movies and culture. *Prerequisite: C-* or better in ITAL 2402, or permission of the instructor.

3357. Italian Grammar and Composition. Analysis and imitation of short contemporary texts: letters, film reviews, articles, criticism and narratives. Development of oral and written proficiency. Selective study of grammar. *Prerequisite:* ITAL 2401.

3373. Italian Culture. The evolution of Italian society with emphasis on cultural, artistic and intellectual trends. *Prerequisite:* ITAL 2401.

4185, 4285, 4385. Internship in Italian. This course offers students experience in organizations where knowledge of Italian and the cultures of Italian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in Italian of 3.3 or higher; and sponsorship of a professor and the organization, agency or corporation.

Literature Courses

4323. Modern Italian Literature II. From the latter half of the 19th century to World War I. Realism, decadentism and the grotesque. Authors studied are Verga, DíAnnunzio and Pirandello. *Prerequisite:* ITAL 2401.

4324. Contemporary Italian Literature. The Fascist Period and World War II. Introspection, society and the problem of evil: Moravia, Pavese, Bassani, Buzzati and Ginzburg. *Prerequisite:* ITAL 2401.

4325. Italian Poetry Since Dante. Historical survey of works of poetry presented in their original form, from the medieval Dolce Stil Novo to the poetic styles of the 20th century. *Prerequisite:* ITAL 3357 or permission of instructor.

4368. Italian Authors: Contemporary. *Prerequisite:* ITAL 2401.

4381, 4382. Tutorial for Juniors and Seniors: Directed Readings and Research. Directed reading and research in specific literary topics or writers. *Prerequisite:* ITAL 3357 or permission of instructor.

Italian Culture and Literature Courses in English

See course descriptions at the end of the Foreign Languages and Literatures section.

FL 2201 Italy Today: Contemporary Italian Culture and Institutions
FL 2395 Italian Culture
FL 3390 (CTV 3390) Italian Cinema
FL 3391, 3392 Special Topics: Italian Literature in Translation
FL 3393 Dante's Poetic Vision
FL 3394 Boccaccio's Decameron and the Medieval Storytelling Tradition

Japanese

Requirements for the Minor in Japanese. A total of 17 hours as follows:

1. **JAPN 2401, 2402** Intermediate Japanese, 8 hours.
2. **JAPN 3311, 3312** Advanced Japanese, 6 hours.
3. One course from the following: **ARHS 3394, FL 3398, HIST 3395, JAPN 4381, PLSC 3346, CTV 3359,** 3 hours.

The Courses (JAPN)

1401, 1402. Beginning Japanese. Focuses on oral and aural proficiency for daily communication situations, mastery of Japanese writing systems (Hiragana, Katakana, basic Kanji), and foundational grammar. *Prerequisite (1402): C-* or better in 1401 or permission of area chair.

2401, 2402. Intermediate Japanese. Focuses on developing and enriching literacy experience in Japanese through reading and writing narrative and descriptive texts, as well as conversing on personal topics in more complicated situations. *Prerequisite (2401): C-* or better in JAPN 1402 or permission of area chair. *Prerequisite (2402): C-* or better in 2401 or permission of area chair.

3311, 3312. Advanced Japanese. Emphasis on enhancing abilities in advanced reading and writing skills, communicating with accuracy and understanding grammatical complexity. Students also acquire the ability to use refined honorific forms in appropriate cultural contexts. *Prerequisite (3311): C-* or better in JAPN 2402 or permission of area chair. *Prerequisite (3312): C-* or better in JAPN 3311 or permission of area chair.

4185, 4285, 4385. Internship in Japanese. Offers students experience in organizations where knowledge of Japanese and the cultures of Japanese-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in Japanese of 3.3 or higher; and sponsorship of a professor and the organization, agency or corporation.

4381. Readings in Japanese Culture and Business. Upper-level language course designed for students who have finished third-year Japanese. Students will enhance their speaking, reading and writing skills through a wide range of authentic materials. *Prerequisite: C-* or better in JAPN 3312 or permission of area chair.

Latin

Requirements for the Minor in Latin. A total of 15 hours, beginning with the intermediate level, and an additional three hours of credit in supporting courses.

1. Required courses include: **LATN 2311** *and* **2312.**
2. Three of the following courses: **LATN 3323, 3324, 3325** *or* **3326**.

3. One course from the following list of supporting courses:
   ARHS 3312, 3314, 3316, 3319; CF 3392 (ARHS 3318), 3346 (RELI 3352); CFA 3307 (RELI 3371); CLAS 2311; ENGL 3382; HIST 3350, 3354, 3355 (CF 3325), 3356, 3361.

The Courses (LTN)

1401, 1402. Beginning Latin. Structures of the Latin language – vocabulary, grammar, syntax. Introduction to Roman history and culture. Simple readings from Latin authors. *Prerequisite (1402): C-* or better in 1401.

2311, 2312. Second-Year Latin. Transition to authentic Latin prose. Readings reinforce the history and culture of the Romans. *Prerequisite (2311): C-* or better in LATN 1402. *Prerequisite (2312): C-* or better in LATN 2311.

3185, 3285, 3385. Internship in Latin. Offers students experience in organizations or institutions where knowledge of Latin is relevant: museums, libraries, historical archives, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in Latin of 3.3 or higher; and sponsorship of a professor and the organization, agency or institution.

3323. Latin Literature: Topics. A thematic approach to Roman literature incorporating excerpts from a variety of authors and genres. Topics include aspects of Roman life and culture, history and politics, religion and philosophy. *Prerequisites:* Completion of LATN 2312 or equivalent placement with a grade of *C* or permission of instructor.

3324. Advanced Latin Grammar Composition. Development of skills in translating complex grammatical structures; practice in writing short compositions with correct syntax and usage. *Prerequisites: C-* or better in LATN 2312 or permission of instructor.

3325. Advanced Latin Readings and Composition. This course concentrates on the Latin language as a powerful vehicle for communication and artistry through reading and writing. Students will study Latin texts on universal themes from various authors and times. *Prerequisites: C-* or better in Latin 2312 or permission of instructor.

3326. Advanced Latin Readings: Vergil. In this course students experience the integration of storytelling with the artistry of language as found in the Aeneid, in which Vergil creates a national epic with political and cultural impact. *Prerequisite: C-* or better in Latin 2312 or permission of instructor.

Russian

Requirements for the Minor in Russian Area Studies

1. A total of 15 hours, including **RUSS 2341, 2351, 3341, 3302; RUSS 3304** is optional.
2. At least one upper-level course from **RUSS 3323, 3351, 3361, 3362.**
3. One or two (two if **RUSS 3341, 3302** *or* **3304** is not chosen as the third language course) of the following upper-level courses taught in English: **HIST 3340, 3341, 5367; FL 3323; PLSC 3351, 3358, 3359 (CFA 3359), 3365, 4358, 4384.**

The Courses (RUSS)

1301, 1302. Basic Russian. *(Russia, summer)*

1401, 1402. Beginning Russian. Introductory Russian meets daily and gives a basic overview of all structures of the language, providing rudimentary competence in Russian. This course will take students through all aspects of beginning Russian study, including the language, life and culture of today's Russian people. The curriculum targets all four skills of speaking, reading, listening and writing.

2341. Russian Reading and Conversation. Russian language work beyond the first-year level is done in multilevel workshops, organized by target skills, each including students with varying levels of experience and background with the Russian language. Small classes permit an individualized approach so that students completing varying assignments work together in the same classroom. Each workshop is completed twice, once at the second-year level and once at the third-year level. Progress to higher levels will be measured by proficiency tests. The reading/conversation workshop targets skills of oral and textural comprehension and active conversational skill. *Prerequisite: C-* or better in RUSS 1402 or permission of area chair.

2351. Russian Syntax and Composition. This workshop undertakes a review of grammatical and syntactical structures and seeks to employ them in writing, using a text and materials from everyday life in today's Russia. (See RUSS 2341 for a description of the multilevel workshop system). *Prerequisite: C-* or better in RUSS 1402 or permission of area chair.

3302. Practicum in Russian Conversation and Phonetics. *(Russia, summer)*

3304. Russian Grammar Practicum. *(Russia, summer)*

3323. Practicum in Russian Culture. *(Russia, summer)*

3341. Russian Reading and Conversation. Continuation of RUSS 2341.

3351. Russian Syntax and Composition. Continuation of RUSS 2351.

3361, 3362. Comparative Grammar of Russian and English. For students who are fully bilingual in Russian and English, these courses provide a practical analysis of the similarities and differences between the two languages. The courses review special problems of native speakers of Russian when speaking in English and they include translation in both directions. Weekly compositions and translations, essay exams. Prerequisite (3361): 16 hours of Russian by examination. *Prerequisite (3362):* RUSS 3361 or permission of area chair.

4185, 4285, 4385. Internship in Russian. This course offers students experience in organizations where knowledge of Russian and the cultures of Russian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in Russian of 3.3 or higher; and sponsorship of a professor and the organization, agency or corporation. After completion of eight credit hours in Russian, study abroad at St. Petersburg State University in the summer and term programs are recommended.

4380, 4381. Directed Studies.

Russian Culture and Literature Courses in English

See course descriptions at the end of the Foreign Languages and Literatures section.

FL 2343 After Communism
FL 3323 (HIST 2323) Russian Culture

Spanish

Requirements for the B.A. Degree in Spanish. A total of 24 hours of advanced courses. Courses are to be selected in consultation with the major adviser and must include the following:

1. Proficiency in written and spoken Spanish demonstrated by coursework in advanced Spanish grammar (**SPAN 3358**) and Spanish conversation (at least one but not more than two courses from **SPAN 3311, 3312, 3313, 3355** *or* **4352**, *or* **4355**). Students who consider themselves proficient in these areas may petition to substitute other courses from the offerings of the major.
2. **SPAN 4395.**
3. A minimum of nine hours in 5000-level literature courses, including at least one course in Spanish literature and one course in Spanish-American literature.
4. Other advanced courses for a total of 24 hours.

Study with SMU-in-Spain, SMU-in-Xalapa or another Hispanic program abroad is strongly recommended. Suggested electives outside the Spanish area are a second foreign language, courses listed under the Latin American and Iberian Studies Program major, literary criticism, other foreign literature in translation, and English and American literature.

Requirements for the Minor in Spanish

1. **SPAN 2302** or the equivalent.
2. **SPAN 3358.**
3. At least one but not more than two courses chosen from **SPAN 3311, 3312, 3313, 3355** *or* **4355.**
4. Other advanced course(s) for a total of 18 hours.

Prerequisites for Advanced Courses. Students need to complete the sequence of first-year courses (**SPAN 1401** *and* **1402**) and second-year courses (**SPAN 2401** *and* **2302**) before taking any 3000-level course.

Prerequisite for 3000-level courses: SPAN 2302 *or* **2312**, or as stated in individual course descriptions.

- Prerequisite for 4000-level courses: See individual course descriptions.
- Prerequisite for 5000-level courses in literature: **SPAN 4395.**
- Prerequisite for 5000-level courses in linguistics: **SPAN 4357.**

The Courses (SPAN)

1401. Beginning Spanish. Stresses acquisition of basic skills: speaking, aural comprehension, reading and writing. Students attend three one-hour fundamentals classes plus two one-hour practice sessions per week. Computer, video and audio assignments are required. Four credits per term.

1402. Beginning Spanish. *(second term)* Continuing focus on the four basic language skills. Students attend three one-hour fundamentals classes plus two one-hour practice sessions per week. Computer, video and audio assignments are required. Four credits per term. *Prerequisite: C-* or better in SPAN 1401.

2311, 2312. Second-Year Spanish. Review of grammar. Discussions and compositions based on literary and journalistic texts. Language laboratory. (Offered abroad; replaced on campus by SPAN 2401.) *Prerequisite: C-* or better in SPAN 1402.

2401. Intermediate Spanish I. The first term of intermediate Spanish will continue to strengthen the four language skills with added emphasis on reading and writing. Students will focus on the following communicative goals: describing, comparing, reacting and recommending, and narrating about the past. Students attend two one-hour fundamentals classes plus three one-hour practice sessions per week. Computer, video and audio assignments in the Foreign Language Teaching Technology Center are required. Four credits per term. All classes are conducted in Spanish. *Prerequisite: C-* or better in SPAN 1402.

2302. Intermediate Spanish II. Continued strengthening of all four language skills in Spanish (listening, speaking, reading, writing). Students will focus on expressing likes and dislikes, making hypotheses and speaking of the future. *Prerequisite: C-* or better in SPAN 2401.

3310. Readings in Spanish and Spanish-American Literature. Refinement of oral and written proficiency based on extensive reading and discussion of literary texts. *Prerequisite: C-* or better in one 3000-level course.

3311. Conversation and Composition: Peninsular Culture. Focus on improving linguistic proficiency within the context of studying Spanish peninsular cultures. Course content varies; may include peninsular film, music, art, etc. *Prerequisite: C-* or better in SPAN 2302 or equivalent.

3312. Conversation and Composition: Mexican Culture. Focuses on improving linguistic proficiency within the context of studying Latin American culture. Course content varies; may include Mexican film, music, art, food, etc. *Prerequisite: C-* or better in SPAN 2302 or equivalent.

3313. Conversation and Composition: Latin American Culture. Focuses on improving linguistic proficiency within the context of studying Latin American culture. Course content varies; may include Latin American film, music, art, etc. *Prerequisite: C-* or better in SPAN 2302 or equivalent.

3355. Spanish Conversation. An advanced course for majors and non-majors intended to increase active command of the language. Limited enrollment. *Prerequisite: C-* or better in SPAN 2302 or equivalent. Not for students who score "Advanced" on Oral Proficiency exam. (See SPAN 4355.)

3357. Spanish Phonetics. A detailed analysis both in theory and practice of Spanish speech patterns, vowels, consonants and intonation. *Prerequisite: C-* or better in one 3000-level Spanish course.

3358. Advanced Spanish Grammar. A thorough study of Spanish grammar. Practice in writing short compositions. Limited enrollment. *Prerequisite: C-* or better in SPAN 2302 or equivalent.

3373. Spanish Civilization. A survey of Spanish culture and societies with particular emphasis on artistic and sociological aspects. *Prerequisite: C-* or better in one 3000-level Spanish course.

3374. Spanish-American Civilization. A survey of Spanish-American culture and societies with particular emphasis on artistic and sociological aspects. *Prerequisite: C-* or better in one 3000-level Spanish course.

4185, 4285, 4385. Internship in Spanish. This course offers students experience in organizations where knowledge of Spanish and the cultures of Spanish-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall GPA of 3.0 or higher; GPA in Spanish of 3.3 or higher; and sponsorship of a professor and the organization, agency or corporation.

4352 (ETST 4352). Conversations and Community. Advanced Spanish course that brings oral and written language to the center of students' learning by bringing them in contact with native Spanish speakers from a variety of Dallas communities. Fieldwork, away from campus, will include a maximum of two hours per week in addition to the required three contact hours in the classroom. *Prerequisites: C-* or better in one 3000-level Spanish course and approval of instructor for language majors. Approval of instructor for all other candidates.

4355. Advanced Spoken Spanish. An advanced course in spoken Spanish for those students with a Spanish-speaking background who score advanced to superior on a departmentally administered oral exam based on ACTFL Oral Proficiency levels. (Students who score below "Advanced" level on the departmental exam may enroll in SPAN 3355.) *Prerequisites: C-* or better in SPAN 2302 and approval of instructor. Not open to students who have taken SPAN 3355. Limited enrollment.

4357. Introduction to Spanish Linguistics. What is language? How do languages function? How is human language different from other communication systems? Focusing on Spanish, this course also explores language acquisition, language contact and bilingualism. *Prerequisites: C-* or better in SPAN 3358 and one of the following: SPAN 3311, 3312, 3313, 3355 or 4355; or permission of instructor.

4361. Translation: Theory and Practice. Through readings and exercises in literary texts and an individual term project, students explore the multiple disciplinary aspects of the process of translation. *Prerequisites: C-* or better in SPAN 3358 and one 3000-level Spanish course.

4391. Commercial Spanish for International Trade. An advanced course in Spanish for international trade and communication. *Prerequisites: C-* or better in SPAN 3358 and one of the following: SPAN 3311, 3312, 3313, 3355 or 4355; or permission of instructor.

4395. Introduction to Hispanic Literature. Study of the tools necessary for analysis and understanding of literature. Application of these tools through reading of Hispanic texts. *Prerequisite: C-* or better in SPAN 3358 and one of the following: SPAN 3311, 3312, 3313, 3355 or 4355; or permission of instructor. Limited enrollment. Meets Perspectives requirement for literature and Human Diversity corequirement.

General Survey Courses

5310. Spanish Literature Before 1700. An introduction to Spanish prose, drama, and lyric and narrative poetry through the golden age. *Prerequisite: C-* or better in SPAN 4395.

5311. Spanish Literature Since 1700. Major writers and movements from 1700 to the present. *Prerequisite: C-* or better in SPAN 4395.

5315. Spanish-American Literature to 1888. Literary figures and trends from the conquest to modernism. Meets Human Diversity corequirement. *Prerequisite: C-* or better in SPAN 4395.

5316. Spanish-American Literature Since 1888. Literary figures and trends from modernism to the present. Meets Human Diversity corequirement. *Prerequisite: C-* or better in SPAN 4395.

5317. The Literature of Mexico. Readings and discussions of the works of major Mexican writers. Meets Human Diversity corequirement. *Prerequisite: C-* or better in SPAN 4395.

Period Survey Courses

5320. The Renaissance and Golden Age: Drama. A study of the early development of Spanish drama and of the flourishing of the theater with Lope de Vega, Calderón de la Barca and their contemporaries. *Prerequisite: C-* or better in SPAN 4395.

5321. The Renaissance and Golden Age: Prose Fiction. An exploration of the development of Spanish narrative through various modes of idealism, realism and self-reflection. Readings include works from Cervantes, Zayas, their contemporaries and their literary predecessors. *Prerequisite: C-* or better in SPAN 4395.

5323. Nineteenth-Century Prose Fiction of Spain. Major prose writers of the realistic and naturalistic movements in the context of 19th-century political, social and economic development. *Prerequisite: C-* or better in SPAN 4395.

5324. Twentieth-Century Poetry and Drama. Poetry and theater of the generations of 1898 and 1927 and more. *Prerequisite: C-* or better in SPAN 4395.

5325. Twentieth-Century Peninsular Prose Fiction. Examination of significant individuals, movements, themes and works of 20th century Spanish prose fiction, e.g., generation of 1898, exile of 1939, Francoism, transition to democracy, social realism, postmodernism, etc. *Prerequisite: C-* or better in SPAN 4395.

Genre Studies

5334. The Novel of the Post Civil War Period. Development of the Spanish novel from the end of the Spanish Civil War (1936–1939) to the present day. The course explores issues of gender, memory and historical representation. *Prerequisite: C-* or better in SPAN 4395.

5335. Genre Studies in Spain. The examination of the works of several authors as a means of understanding the nature and evolution of a particular genre. *Prerequisite: C-* or better in SPAN 4395.

5336. The Spanish-American Novel. The evolution of the Spanish-American novel and analysis of master works of the 19th and 20th centuries. Meets Human Diversity corequirement. *Prerequisite: C-* or better in SPAN 4395.

5337. The Spanish-American Essay. Students explore the intellectual climate of Spanish America in the last two centuries as revealed in the works of famous essayists such as José Martí and Octavio Paz. Meets Human Diversity corequirement. *Prerequisite: C-* or better in SPAN 4395.

5338. The Spanish-American Short Story. Evolution of the short story in Spanish America: Palma, Quiroga, Borges, Carpentier, Asturias. Cortázar, Rulfo, García Márquez and others. Meets Human Diversity corequirement. *Prerequisite: C-* or better in SPAN 4395.

5339. Spanish-American Poetry. Major Spanish-American poets, with emphasis on the 20th century: Octavio Paz, Nicolás Guillén, Gabriela Mistral, Pablo Neruda and others. Meets Human Diversity corequirement. *Prerequisite: C-* or better in SPAN 4395.

Advanced Courses in Linguistics

5340. The Structure of Spanish. Explication of Spanish syntactic structures using conventional and more recent treatments of Spanish grammar and current developments in syntactic theory. Development of skills in analyzing Spanish syntax. *Prerequisite: C-* or better in SPAN 4357.

5341. Spanish Phonetics and Phonology. Survey of phonetic (acoustic, physical) and phonological (distributional) properties of the Spanish sound system. Comparison with the English sound system. Introduction to phonologically conditioned dialectal variation in the Spanish-speaking world. *Prerequisite: C-* or better in SPAN 4357.

Thematic Courses

5360. The Concept of Honor in Spanish Literature. An exploration of the Spanish concept of honor, especially the way it shapes Hispanic identity over both time and distance and across social and gender boundaries. Lecture, 3 hours. *Prerequisite: C-* or better in SPAN 4395.

5361. Don Quixote: The Idea, The Character, The Book. An exploration of Cervantes's masterpiece, Don Quixote, and its influence on art and society. *Prerequisite: C-* or better in SPAN 4395.

5365. Contemporary Spanish Women Writers. Explores constructions of gender and identity in contemporary Spanish literature by women. Written texts, music, film and documentary will combine to offer multiple perspectives on the subject. Lecture, 3 hours. *Prerequisite: C-* or better in SPAN 4395. Meets Human Diversity corequirement.

5370. Rewriting Discovery and Exploration in the Spanish Borderlands. An examination of shifts in the articulation of discovery and exploration in writings treating the northern frontier of New Spain during the mid to late 16th century. *Prerequisite: C-* or better in SPAN 4395. This course may count as either Peninsular or Latin American Literature.

5375. Contemporary Fiction by Latin American Women Writers. Explores constructions of gender and identity in 20th-century fiction by Latin American women. Novels, short stories, film and critical texts will be examined. *Prerequisite: C-* or better in SPAN 4395.

Other Literary Studies

5380, 5381. Tutorial for Juniors and Seniors. Special project arranged by the student with the help of a faculty adviser and the approval of the chair of the department.

Culture and Literature Courses in English

See course descriptions at the end of the Foreign Languages and Literatures section.

FL 3303 Spanish Civilization
FL 3305 Special Topics: Latin American Literature in Translation
FL 3306 The Heart of Aztlán: Chicano Literature of the Southwest

Linguistics and World Literatures and Cultures

The Courses (FL)

All courses are conducted in English.

2201. Italy Today: Contemporary Italian Culture and Institutions. An overview of contemporary Italian society, institutions and traditions, from the role of the church to the fashion industry. *Prerequisite:* Concurrent enrollment in ITAL 1401, 1402 or 2401 with approval of instructor.

2343. After Communism. This course examines changes in Russian and Eastern European culture since the mid-1980s, when openness and restructuring prepared the ground for the fall of the Soviet Union.

2395. Italian Culture. Significant aspects of Italian culture and thought, beginning with the age of Dante, are presented from poetry, prose, drama, journalism, architecture, the fine arts, music and film.

3303. Spanish Civilization. Significant aspects of Spanish culture are presented and illustrated by examples from Spain's history, music, art, architecture, literature, folklore and contemporary life. Course may be taken as SPAN 3373 if the student does his or her work in Spanish. (Offered at SMU-in-Spain)

3305. Special Topics: Latin American Literature in Translation. The reading of masterworks of Latin American authors. Readings will vary from term to term and will be selected for their relevance to a particular period, genre or theme. This course meets Human Diversity corequirement.

3306. The Heart of Aztlán: Chicano Literature of the Southwest. A study of the Chicano/Mestizo cultural identity in the Southwest, the course includes readings from selected contemporary authors as well as from the early recorded contacts between Native Americans and their European conquerors. Meets Perspectives requirement for literature and Human Diversity corequirement.

3307 (CFA 3329). The Belle Époque and the Birth of Modernity. Through a series of lectures, readings and visits, the course will present an in-depth study of society, culture, art and literature in Paris and in the provinces. (Offered at SMU-in-Paris)

3308. Introduction to General Linguistics. This course is an introduction to the field of linguistics, which is concerned with the study of human language in the broadest sense. This course meets Perspective requirement for literature.

3310 (CF 3390). Transnational Chinese Cinema. Introduces students to films produced in the People's Republic, Taiwan and Hong Kong. In considering cinema as a sign system for the construction of sociocultural and aesthetic meanings, this course examines different national identities and film genres. Students will learn to understand non-Western cultural texts and to analyze cinematic representations. Meets Human Diversity corequirement.

3312. Women in Modern China. Critical examination, from literary and gender perspectives, of the lives and roles of 20th-century Chinese women, including works from major women writers. Meets Human Diversity corequirement and Perspectives requirement for literature.

3323 (CFA 3320, HIST 2323). Russian Culture. Significant aspects of Russian thought and culture at its various stages of development are presented and illustrated by examples from literature, folklore, prose, drama, journalism, architecture, the fine arts and music. Meets Human Diversity corequirement.

3325 (CF 3365). Perspectives on Modern China. Survey of China in the 20th century in terms of cultural trends, literature and cinema. The course stresses the interactions between reality and representation, between author and reader/audience, and between text and interpretation. Close reading of texts or viewing of films, followed by critical analysis, is emphasized. Meets Human Diversity corequirement.

3330 (CFB 3304). Migration, Occupation and Independence in North-African Cinema. An introduction to the cinemas of Algeria, Tunisia, Morocco, Chad and Mali. The course explores the themes of migration, occupation and independence in both individual and national terms.

3331. Survey of Russian Literature in Translation. Russian literature from the 18th century to the present. Works by Tolstoy, Dostoevsky, Chekhov, Solzhenitsyn and others. Meets Perspectives requirement for literature.

3332. Special Topics: Russian Literature in Translation. Texts, periods and thematic and critical approaches will vary from term to term.

3335 (CF 3335, HIST 3335). One King, One Law: France 1500–1789. This course examines the culture of France through its history and literature. It emphasizes historical developments, ideas and literary texts that define and illuminate French classicism and absolutism. The course focuses on the early modern period, when France set the cultural tone and made significant contributions to the transformation of Western civilization. The course also provides a foundation for understanding subsequent European history and literary movements.

3340. Semiotics and Interpretation. Semiotics is the study of how meaning is produced and communicated. This course explores semiotic approaches to the interpretation of the most complex of all human communications: literary texts. Meets Perspectives requirement for literature.

3349 (CF 3349, HIST 3392). The African Diaspora: Literature and History of Black Liberation. Black literature played an important role in bringing on the collapse of the European colonial order, and it remains a major force in the struggle against neocolonialism today. This course explores links between literature and politics, literature and history, and thought and action in 20th-century Africa and the Caribbean. Readings and lectures will be supplemented by class discussion, films and videotapes about the Caribbean and Africa. Meets Human Diversity corequirement.

3350. Existentialism and Literature. Existentialist perspectives on society, individual responsibility, politics and war, as presented in key literary texts by Kierkegaard, Dostoevsky, Malraux, Sartre, Camus, Ellison and others.

3359. Masculinities: Literary Images and Perspectives. The representation of male sex roles in Western literature, from Achilles to James Bond. Open to juniors and seniors; sophomores by permission of instructor. Meets Perspectives requirement for literature.

3360 (CFA 3360). The Ethics of Colonization in Latin America. Through a study of literary, philosophical, historical and religious texts, this course considers how the humanist ethics of the Renaissance were debated and carried out in the colonization of Latin America.

3361. Special Topics: French Literature in Translation. Texts, periods, and thematic and critical approaches will vary from term to term. (SMU-in-Paris only)

3363 (CF 3347, WGST 3347). Figuring the Feminine. The feminist inquiry in France from the Middle Ages to the present. Texts by women that bear witness to women's struggles for civil, social and political adulthood. Meets Human Diversity corequirement.

3365, 3366. Special Topics: French Literature in Translation. Texts, periods, and thematic and critical approaches will vary each term.

3369 (CF 3369). Perspectives on Modern Germany. A multidisciplinary survey of the German heritage, with emphasis on Germany's quest for identity and unity. *Prerequisite:* Sophomore standing or permission of instructor.

3370 (CFB 3360). Shadows of Enlightenment: Human Rights in Germany. Study of documents and debates on human rights, literature, and art from the Enlightenment to the present. Discussion of the Holocaust, human rights concerns in divided Germany, migration, and multiculturalism.

3390. Italian Cinema. A chronological survey of Italian cinema from its beginnings to the present. Themes and cinematic styles of several internationally noted directors such as Rossellini, DeSica, Fellini, Antonioni and Bertolucci, with attention to the Italian cinema as a reflection of sociopolitical trends.

3391, 3392. Special Topics: Italian Literature in Translation. Texts, periods, and thematic and critical approaches will vary from term to term. Meets Perspectives requirement for literature.

3393. Dante's Poetic Vision. Close reading of *The Inferno* and *The Purgatory.* Focuses on significant passages to reveal Dante's poetic genius along with his political and religious concerns in the context of medieval thought. Meets Perspectives requirement for literature.

3394. Boccaccio's *Decameron* and the Medieval Storytelling Tradition. This course places the *Decameron* in the context of its predecessors and shows how the realism of the novelle promoted a new poetics framed by the exigencies of the mercantile class. *Prerequisite(s):* A rhetoric and/or literature course.

3395 (CF 3395). A Cultural Journey to China. Suzhou, in China's cultural heartland, is the site of this course on the development of Chinese culture: religion, literature, cinema, art, architecture and history. Trips complement readings centered on self, family and state. (SMU-in-Suzhou only)

3397 (HIST 2394). China Before 1850. Examines changes and continuities from Neolithic times to 1850 in Chinese state, society and religion, and the relations among the three spheres, through scholarly writings and primary sources.

3398 (HIST 2395). Modern East Asia. A survey of modern East Asia emphasizing an outline of the traditional societies, the Western impact, Japanese industrialization and imperialism, Pearl Harbor, and the rise of Chinese communism.

SMU Abroad Courses

Arabic (ARBC)

1301. Arabic Language Level I. Introduction to basic language skills in Arabic for linguistic and cultural purposes while enrolled in SMU-in-Cairo, which is conducted by American University in Cairo. (SMU-in-Cairo only.)

1302. Arabic Language Level II. Develops the fundamentals of modern standard Arabic through reading, writing and oral drill within a framework of the essentials of syntax, morphology and a working vocabulary. (SMU-in-Cairo only.) *Prerequisite:* ARBC 1301.

1304. Arabic Language Level IV. Study, by means of phonetic transcription or the Arabic alphabet, of the basic inflectional and syntactical patterns of Egyptian colloquial Arabic. (SMU-in-Cairo only) *Prerequisites:* ARBC 1301, 1302.

Danish (DNSH)

1301. Danish Language, Level One. Three-hour lecture, beginning Danish, level one. (SMU-in-Copenhagen only)

HISTORY

www.smu.edu/history

Professor Kathleen Wellman, **Department Chair**

Professors: Jeremy Adams, Peter Bakewell, John Chávez, Dennis Cordell, Edward Countryman, James Hopkins, Donald Niewyk, Daniel Orlovsky, Sherry Smith, William Tsutsui, David Weber, Kathleen Wellman, R. Hal Williams. **Associate Professors:** Crista DeLuzio, Melissa Dowling, Kenneth Hamilton, Benjamin Johnson, Thomas Knock, Alexis McCrossen, John Mears. **Assistant Professors:** Sabri Ates, Erin Hochman, Azfar Moin, Ling Shiao. **Adjunct Assistant Professor:** David Doyle. **Adjunct Lecturer:** Rick Halperin.

The William P. Clements Department of History offers three types of courses: introductory, survey and more advanced courses that explore large areas of human history; intermediate thematic courses that mix lectures and small group discussions to explore more closely defined topics; and seminars that probe deeply into given areas. Each student should devise a program of study that meets individual interests and needs and also achieves a balance between diversification and specialization. Except where specified, there are no prerequisites, and interested students are invited into all courses.

Requirements for the B.A. Degree. A total of 33 hours in history are required for the major, including HIST 4300 Junior Seminar in Research and Writing and one three-hour course at the 5000 level. In addition, majors must take at least six hours in each of the following three areas: 1) United States; 2) Europe; and 3) Africa, Asia or Latin America. Any combination of courses in these areas is acceptable (HIST 4300 will not fulfill these area requirements). At least 18 hours in courses at the 3000 and higher levels are required. History majors must earn 2.0 minimum GPAs in their history coursework. Six hours of advanced-placement credit can be applied toward the history major.

Twelve term hours of foreign language are recommended.

The Departmental Distinction Program. A history major candidate with sufficiently high standing may graduate with honors in history by applying for the degree "with departmental distinction." During their senior year, candidates for distinction will pursue an individual research project under the direction of a particular professor (while enrolled in HIST 4375). This major research project will develop from the 5000-level seminar or HIST 4300, the junior seminar. The project will be presented as a thesis before the end of the term. The successful honors graduate must also pass an oral examination on the thesis.

Requirements for the Minor. Students with a general interest in history may pursue a minor by taking 15 hours of departmental coursework. Nine term hours must be taken at the 3000-5000 level. Students intending to take a minor in the department should design a program of study in consultation with the director of Undergraduate Studies.

The Courses (HIST)

Foundation and Special Courses

1301, 1302. World Cultures and Civilization. A survey of world cultures from the earliest times to the present. The development of individual civilization will be studied within a comparative framework emphasizing the themes common to all human history.

1311. Western Civilization to 1527 A.D. A survey of the cultural phenomenon often called Western civilization, from its prehistoric roots in western Asia as well as Europe, through

ancient Mesopotamian and Egyptian civilization to the Greeks, the Romans, and the medieval experience up to the Renaissance. Lecture course, with much reference to literature and visual arts.

1312. Western Civilization Since 1527. An introductory survey of Western civilization from about the time of the Reformation to the present.

4300. Junior Seminar in Research and Writing. Consists of a common body of readings on research methods and writing and a relatively small core of required readings that will be different in each section and organized around a topic chosen by the instructor. Closely supervised writing assignments, based upon the required readings, will grow into a major research project by the end of the term.

4375, 4376. Departmental Distinction. Honors program open to qualified seniors by invitation of the department.

4397. Internship in History. An opportunity for students to apply historical skills in a public setting working with a supervisor of the student's work and a professor assessing the academic component of the project. *Prerequisites:* Junior or senior standing and at least 2.5 overall GPA.

4398, 4399. Independent Study. Students majoring in history may apply in their junior year to the director of Undergraduate Studies to pursue a personally designed course of study under the guidance of an appropriate professor during the junior or senior year.

United States History

Students majoring in history and planning a concentration in the U.S. history field are advised to begin their program with one of the "problems" or advanced survey courses (at the 3000–4000 level), not HIST 2311, 2312.

1321. First-Year Seminar in American History. Offers the beginning student an opportunity to explore particular topics in American history intensively in a small class setting.

2311. Out of Many: U.S. History to 1877. Growth of American civilization. General survey, with particular attention to social and political aspects. Open to first-year students.

2312. Unfinished Nation: U.S. History Since 1877. Growth of American civilization. General survey, with particular attention to social and political aspects. Open to first-year students.

2318. Schools and Society: The Evolution of America's Public School System. An interdisciplinary exploration of America's public school system from the Colonial period to the present with emphasis on changing relationships between schools, families and evolving social and political ideals.

2339. A History of Technology in the United States. Examines how technological innovations have changed the lives of Americans between the Revolution and the present. Considers how Americans have embraced, resisted, understood and used new technologies.

2380 (CFA 3380). Ethnic Regions in the Western World. An interdisciplinary course that examines the ways regional ethnic minorities – such as the Basques, Québécois and Chicanos – have functioned within larger societies in Western Europe and North America.

2390. Civilization of India. Introduction to the history, society and cultural features of South Asia from the third millennium BCE to the modern day.

2398. American Politics and Culture, FDR to Obama. Examines life and culture in modern America.

3301 (CF 3317). Human Rights: America's Dilemma. Examines certain violations of human rights within their historical context and explores America's commission and prevention of human rights violations.

3304. Blacks and the Civil Rights Movement. African Americans and the civil rights movement with a focus on post-World War II migration; changing conceptions of race; increasing African-American prosperity, integration and black nationalism; and the lives of significant African-American leaders of the civil rights movement.

3305 (CF 3318). The Hispanos of New Mexico, 1848–Present. *(summer only)* History of the Mexican-American subculture of New Mexico. Field trips to historical sites. (SMU-in-Taos)

3306 (CF 3309). Colony to Empire: U.S. Diplomacy 1789–1941. Examines major events in American foreign policy from the early national period to Pearl Harbor, emphasizing 19th-century continental expansion, early 20th-century imperialism, and American involvement in the World Wars.

3307. The U.S. and the Cold War, 1945–1989. An examination of major events in American foreign policy since World War II, emphasizing policy toward Western Europe, the Soviet Union, Asia and Latin America.

3308 (CF 3320). History of Hispanics in the U.S. Through Film. An examination of selected events and developments in the histories of Mexican Americans, Puerto Ricans, Cuban Americans and other Latinos as depicted in film and video and also in movies and television.

3309 (CFB 3309). North American Environmental History. Surveys North American environmental history since pre-Columbian times. It expands the customary framework of historical inquiry by focusing on the interaction of human beings and the natural world.

3310. Problems in American History. Explores historical issues or trends in U.S. history using a case study or comparative format.

3311. Nineteenth-Century American West. History of the trans-Mississippi West in the 19th century, with an emphasis on major political, social, economic and environmental themes of the region's history.

3312. Women in American History. Analyzes women's changing social, economic and political roles in American society from colonial times to the present.

3313. African Americans in the United States, 1607–1877. Examines the people of the African continent, uprooted and enslaved, who continually grappled with the problem of how to preserve their dignity and identity in a hostile environment. The African Americans' adjustment to American society, their exterior struggle against political oppression, the interior nature of their group life and the development of black institutions are critical to the course's concerns.

3314. African Americans in the United States, 1877 to the Present. Particular attention will be given to Populism, disfranchisement, segregation and lynching, African-American leadership ideologies, the influence of mass migrations, the impact of the Great Depression and two world wars on African-American life, the quest for equality in the 1950s and the civil rights movement in the 1960s, and the flowering of black culture and nationalism.

3316 (CF 3311). History of Sex in America. This course will test the hypothesis that gender and sexuality are culturally constructed categories. Readings in anthropology, history, literary criticism and psychiatry will be utilized.

3318. The Human History of Natural Disaster in the United States. A survey of the role of "natural" disasters in U.S. history, with an emphasis on the ways that they (including Hurricane Katrina) are human events, caused or complicated by social practices.

3319. Texas History. Texas as a crossroad of cultures from the 16th century to the present.

3320. The Spanish Frontier in North America, 1513–1821. *(Also listed under Latin American History.)* The exploration, colonization and development of the South and Southwest under Spanish rule, 1513 to 1821, including interaction with Indian peoples.

3321. The American Southwest. *(Also listed under Latin American History.)* History of the American Southwest, from the initial penetration in 1821 to the present.

3322 (CFB 3322). Native American History. Examines the roles Native Americans played in the history of North America (excluding Mexico) from 1500 to the present.

3324. The Mexican Americans, 1848 to the Present. Traces the historical evolution of the Mexican-American people in the Southwest from pre-Columbian to modern times with emphasis on the era since the Mexican War.

3327. Economic History of the United States. Development of the United States economy from colonial times until the present. Causes and consequences of American economic growth and instability.

3336 (CF 3366). Cultural History of the United States. Analysis of the literature, art, architecture, music, drama, popular amusements and social customs of America since 1877.

3338. U.S. Social History to 1877. Views history from the bottom up, offering a comparative examination of the American social experience (colonial era to 1877) in terms of race, class, ethnicity and gender.

3339. U.S. Social History Since 1877. Views history from the bottom up, offering a comparative examination of the American social experience (1877 to the present) in terms of race, class, ethnicity and gender. *Recommended preparation:* HIST 3338.

3342 (CFB 3383). Utopian Perspectives on the American Southwest. The course focuses on the American Southwest when the region became a "homeland of the imagination" for those fleeing the modern, industrial culture of the West. (SMU-in-Taos)

3346. The 20th-Century American West. Examines the American West in the 20th century, emphasizing major social, cultural, economic and political themes of the region's last 100 years. Explores the characteristics that distinguish the West from other American regions and investigates its continued significance to American history.

3347. Civil War and Reconstruction. Examines the institution of slavery, the events leading to the Civil War, the war itself and the subsequent efforts at reconstruction.

3348 (CFA 3348). American Families: Changing Experiences and Expectations. Explores changes in American family life from the colonial period to the present. Seeks to understand how family ideals, structures and roles have shaped and been shaped by social and historical change.

3362. Searching for the American Dream: U.S. Immigration/Migration. Focus on American identity through the history of immigration and migration. Topics include the slave trade; European, Asian and Latin American immigration; the Overland Trail; illegal immigration; and "the melting pot."

3364. Consumer Culture in the United States, 1700–1990. The business, cultural and political history of the rise of the consumer culture in the United States. Focuses on the development of institutions, ideas and practices centered on consumption.

3369. Colonial America. A study of the transfer of Europeans and Africans to the British mainland provinces and the development of a multicultural and multiregional colonial society.

3370. The American Revolution. A survey of political, social and military history of the Revolutionary era. Major topics include the imperial crisis, mobilization and war, and state and federal constitutional development.

3372. The South in American History. Explores the origin, development, and present and future status of the South's position in America.

3379 (CFA 3325). A Cultural History of New Mexico. Explores the history of struggles between the state's dominant ethnic groups – Native American, Hispanos and Anglos – over rituals, spaces and objects. (SMU-in-Taos)

3384. Social Action in Urban America. An examination of the historical development of social action in American cities and communities, from religious charity organizations of the 19th century to present-day community organizing projects. Taught in conjunction with the SMU Inter-Community Experience (ICE) Program and includes a 3-hour-per-week community service requirement. *Prerequisite:* Permission of instructor.

3388. The African-American Urban Experience, 1865–1980. A history of blacks in American cities during the post-Civil War era. Investigates the forces that inspired African Americans to relocate to urban areas. Surveys the dynamic lifestyles created within evolving black urban communities, the long periods of major African-American rural-to-city migration, institution building, African-American politics, African-American economics, race relations and social life.

3391 (CF 3330). From Pew to Bleacher: American Culture and Institutions. An introduction to the formation of 19th- and 20th-century American culture and civilization through the study of the Church, print culture, museums, galleries, libraries, theatre, Hollywood, television, and professional sports.

3394. The "New Woman": The Emergence of Modern Womanhood in the U.S., 1890–1930. Explores the experiences of a variety of women from 1890–1930, including feminists, reformers, intellectuals, artists, working women, mothers, high school and college students and juvenile delinquents.

3399. U.S. Foreign Policy from the Spanish American War to Vietnam. A broad survey of American foreign relations in the 20th century. Traces the rise of the United States as a world power from Teddy Roosevelt's charge up Kettle Hill to the evacuation of Saigon in 1975.

3401 (CF 3401). The Good Society. Examines the values and ideals that have been fundamental to the historical concept of the "good society," with an emphasis on themes to aid in understanding issues of race, gender, ethics and power essential to any meaningful evaluation of the society in which one lives.

4304. At the Crossroads: Gender and Sexuality in the Southwest. This course approaches the study of New Mexico and by extension the Southwest, through the lens of gender and sexuality. Its history and changes over time will be examined.

4353, 4354. History of Ideas in America. Studies the main themes of American public thought from the colonial period to the Civil War and from the Civil War to the present.

For Undergraduate and Graduate Students

5330, 5331. Seminar in Mexican-American History. An examination of the growing historiography on Mexican-Americans, focusing on the relationship between their ethnic identity and the Southwest. (Also listed under Latin American History.)

5340, 5341. Seminar in American History. Intensive examination of major topics in American history.

5344. American Cultural History. Considers the histories of cultural institutions, objects, ideas and practices. Explores an array of representative cultural conflicts and obsessions that have marked American history.

5345. Industrialism and Reform in U.S., 1877–1919. An investigation of life in Gilded Age and progressive-period America, including industrialization, urbanization and social conflict.

5350. Twentieth-Century America: A Seminar. Intensive examination of major developments in recent American history.

European History

1303. Millennialism Through the Ages. A historical look at the ancient and current notion that an apocalyptic end time will produce a new heaven and new earth turning conventional order upside down, and how to behave if so.

1322. First-Year Seminar in European History. Offers the beginning student an opportunity to explore particular topics in European history intensively in a small class setting.

2321. Philosophical and Religious Thought in the Medieval West. A study of the key issues in Western thought, and of their temporary resolutions, in the "medieval" millennium – and of the shifting balance between Greek and Hebrew elements in that evolving tradition.

2323 (CFA 3320, FL 3323). Russian Culture. Significant aspects of Russian thought and culture at its various stages of development, illustrated by examples from poetry, prose, drama, journalism, architecture, the fine arts and music.

2346. Modern England, 1714 to the Present. A survey of modern English history from the accession of the Hanoverians to the present, with emphasis on social and political themes dealing with the transition from a landed to an industrial society. (SMU-in-Oxford)

2353 (CF 3392, ARHS 3318). Currents in Classical Civilization. The interdisciplinary study of the art, literatures and history of the ancient Greek and Roman worlds, focusing on the development of democracy, individualism, immortality, heroism, justice, sexuality, nature, etc.

2354. Ancient Foundations of Modern Civilization. An introduction to the study of the ancient world embracing both the ancient Near East and classical Greek and Roman civilization.

2365. Europe in the Modern World, Renaissance to 1760. An introductory survey of the growth of European civilization.

2366. Europe in the Modern World, 1760 to Present. A continuation of HIST 2365.

3302. Georgian and Victorian England, 1714–1867. The political, social and economic institutions of Britain and their development in the 18th and 19th centuries.

3303. Modern England, 1867 to the Present. Britain in the 20th century, with social and cultural emphasis; traces the changes in outlook and empire to the present day.

3328. Economic History of Europe, 1000 A.D. to the Present. Survey of the development of the European economy from 1000 A.D. to the present. Sources of growth and institutional changes will be explored.

3329 (CF 3322). Women in Early Modern Europe. A study of the influence of women in European society and intellectual movements from the Renaissance through the Enlightenment.

3330. Women in Modern European History. An exploration of the role of women in European society, from the cultures of Crete and Sumer to the present.

3332. Ancient and Medieval France. An exploration of selected themes that dominate the current history, archaeology and historiography of ancient and medieval France, from the Paleolithic cave painters to Joan of Arc.

3333. Early Modern France to 1789. An examination of the social, political and cultural transformation of 16th-, 17th- and 18th-century France through the rise of the Bourbon monarchy, its consolidation under Louis XIV, and its evolution under his successors.

3334. France Since 1789. A history of France from 1789 to the present with special emphasis on social and cultural history including the French Revolution and its legacy, the development of 19th-century French society, and France during the two World Wars.

3335 (CF 3335, FL 3335). One King, One Law: France 1500–1789. The culture of France through its history and literature, emphasizing the historical developments, ideas, and literary texts that define the period and illuminate both French classicism and absolutism.

3337 (CFB 3337). Ethical Dilemmas in a Global Age. A cross-cultural exploration of major ethical issues emanating out of the radically changing context of human existence in recent decades.

3340. The Revolutionary Experience in Russia, 1900–1930. The effects of the breakdown of the old regime and the establishment of Soviet power on Russian society and culture. Examines the evolution of political and social institutions, ideologies, literature and the arts against the backdrop of the era's turbulent political history.

3341. Soviet/Post-Soviet Society and Politics, 1917 to Present. Soviet/Russian/Eurasian experience from historical, ethnographic, economic, social and cultural perspectives, beginning with the present and going back to the roots of the Soviet state and society in the Revolutionary experience, 1917 to 1921.

3342. Atomic Energy and the Modern World. An examination of the development of atomic energy and how it affected life in the 20th century.

3344 (CF 3394). The Oxford Landscape: From the Stone Age to the Tudors. An exploration of several approaches to the development of the distinctive human "landscape" of the Upper Thames Valley and the city that gradually became its metropolis, from the Paleolithic era to the end of the Middle Ages. (SMU-in-Oxford)

3345. England in Medieval and Early Modern Times. Treats selected themes in the history of England to 1688, with special attention to formative periods and developments in the evolution of the English state. (SMU-in-Oxford)

3350. Life in the Medieval World, A.D. 306 to 1095. A survey of the political, religious and cultural history of Western Europe from Constantine the Great to the First Crusade.

3351. Life in the Medieval World, 1095 to 1350. A survey of the political, social and intellectual structures that characterized the civilization of Western Europe between the First Crusade and the Black Death.

3352. The Age of the Crusades. Exploration of patterns of thought and behavior underlying and motivating the military, ideological and general cultural confrontation between Christendom and Islam from the late 11th to the 14th centuries.

3353. The History of Ancient Greece. A study of the ways in which the various societies of ancient Greece approached the problem of defining, establishing and maintaining an equitable social order.

3354. Warfare and Diplomacy in Antiquity. A study of the methods both of waging and of averting war in antiquity.

3355 (CF 3325). Class and Gender in Ancient Society. An examination of class and gender in the ancient world with special emphases on changing definitions of masculinity and femininity in Greek and Roman culture and the position, rights and interaction of different groups (e.g., free and slave, citizen and foreigner, soldier and civilian).

3356. The Individual and Society in Antiquity. A study of different concepts of the nature of the individual and his relation to society in Homeric and classical Greece and republican and imperial Rome.

3357 (CF 3363, ENGL 3371). Joan of Arc: History, Literature and Film. The life and later reception of the extraordinary peasant girl, Joan of Arc (ca. 1412–1431), who in two years changed the course of European history before she was burned at the stake.

3358 (CF 3313). The Renaissance. A history of culture in the Renaissance from the perspective of advances in scholarship and science and, above all, of an appreciation of social and political contexts.

3359. Europe in the Age of the Reformation, 1520–1598. The political, economic, religious and cultural history of Europe, including the impact of the Protestant and Catholic reform movements.

3360. English Society in the Age of Elizabeth the Great. Focuses selectively upon key aspects of the social, cultural, religious and intellectual life of Elizabethan England, set against the background of political, economic and diplomatic developments in Europe in the 16th century.

3361. Roman History and the Roman Mind. The development of Roman civilization from its earliest beginnings to the dawn of the Middle Ages.

3363 (CF 3306). The Holocaust. Examines the destruction of the European Jews as they emerged from pre-World War I anti-Semitism and Nazi racism. Considers Jewish responses to genocide, the behavior of bystanders, and possibilities of rescue.

3365, 3366. Problems in European History. Historical events or trends of particular significance in the development of modern Europe will be examined with consideration of the ways in which historians have assessed and reassessed their viewpoints. Students will be invited to join in the controversy with a modest research project of their own. Topics will be selected in accordance with the interests of students and instructors and hence will vary from term to term.

3367. Revolutions in European History. Traces the impact of revolutionary explosions on European civilization from the peasant revolts of the late Middle Ages through the rebellions of the 1560s and 1640s and the great upheavals of the Age of Democratic Revolution to the events of 1917 in Russia. *Recommended preparation:* HIST 2365, 2366.

3368 (CF 3312). Warfare in the Modern World. The evolution of weapons, tactics, strategy and military organization in the western world from the Renaissance to the present, with special attention to the fundamental nature and causes of armed conflict as well as the interrelationships between warfare and society as a whole.

3373 (CF 3327). Science, Religion and Magic in Early Modern England. A study of the interaction of three ways of thinking about nature – science, magic and religion – and the

place of human beings within nature. Focuses on early modern England and religious divisions of the English Reformation and civil wars that brought political dissension and many competing views of nature and society.

3374 (CF 3328). Diplomacy in Europe: Napoleon to the European Union. Treats the evolution of the European state system from the post-Napoleonic settlement through the end of the Cold War and creation of the European Union.

3375. Social History of Early Modern Europe. Studies European social and cultural development from the Renaissance to the French Revolution.

3376 (CF 3314). Social and Intellectual History of Europe. Studies European social, cultural and intellectual development from 1848 to the present.

3383. Habsburg Monarchy: Making of East Central Europe. The Habsburg monarchy from its medieval origins through its disintegration at the end of World War I, with emphasis on its enduring legacy to contemporary Europe.

3385. The Balkan Peninsula in Its European Context. The impact of events in the Balkan peninsula on the development of European civilization from the conquests of the Ottoman Turks prior to 1566 through the contemporary era.

3397 (CF 3336). Modernity and Crises of Identity. Draws on the works of major intellectuals and artists. Explores crises of identity in Western culture during the decades prior to World War I.

4319 (CFA 3345). Medieval Formation of English Culture. When, where and how was "English culture" – that globally widespread and distinctive variation of "Western culture"– formed? In the 8th to 16th centuries, in a realm with Oxford at its center.

4363. Inside Nazi Germany. The reality beneath the spectacle of the Nuremberg rallies and the efficiency of the totalitarian state.

4369. History of Modern Germany. Surveys developments in German society from unification under Bismarck to division in the wake of World War II, with particular attention given to Hitler's rise to power.

4380. History of Spain to 1492. *(Also listed under Latin American History.)* The main social, political and cultural topics of the history of the Iberian Peninsula before Ferdinand and Isabella, focusing on the Roman and Medieval periods.

4381. History of Spain, 1469 to the Present. *(Also listed under Latin American History.)* The main social, political and cultural topics of the history of the Iberian Peninsula from Columbus to the present.

4384. Early and Medieval England, From the Beginning to 1485. The early historical heritage of the English peoples, from prehistoric times through the end of the Middle Ages.

4385. Tudor and Stuart England, 1485 to 1714. The emergence of the modern British state and societies in the 16th and 17th centuries.

For Undergraduate and Graduate Students

5364. The City of God in Its Milieu. An examination of St. Augustine's masterpiece, along with several of its models and analogues from the Greco-Roman and Hebrew traditions.

5367. Russia From the Kievan Era to 1881. Surveys the development of state and society from the beginnings of history in East Slavic territory through the era of the Great Reforms.

5370. Seminar in French History. An examination of key historians and of the several modes of history-writing that shape our vision of premodern France.

5371. The French Revolution and Napoleon, 1789–1815. The nature and causes of revolution, the French Revolution, and the career of Napoleon Bonaparte.

5372. Europe From Napoleon to Bismarck, 1815–1870. Examines the aftermath of Napoleon's empire, with special consideration of the revolutions of 1848.

5373. Europe From Bismarck to World War I, 1870–1918. Studies some of the modern world's most potent ideas: imperialism, social Darwinism, Marxism, racism and positivism in the context of Europe at the peak of its influence.

5374. Recent European History, 1918 to the Present. Considers two attempts to revive Europe from the effects of disastrous world wars, as well as the sources of new vigor it has found in the last 30 years.

5375. Europe in the Age of Louis XIV. The scientific revolution, the culture of the Baroque, and development of the European state system under the impact of the Thirty Years' War and the wars of Louis XIV.

5376. Europe in the Age of Enlightenment, 1715–1789. A study of society and culture in 18th-century Europe, the Enlightenment philosophies, Rococo art, the classical age of music, enlightened despotism, and the coming of the French Revolution.

5378. Medieval Renaissances. A reading-and-discussion seminar in two bursts of medieval cultural activity, the Carolingian and 12th-century renaissances. Focuses on two case studies (Alcuin and John of Salisbury).

5390. Seminar in Russian History. This advanced seminar covers in depth selected topics in late Imperial and Soviet history. *Prerequisite:* HIST 3340 or 3341, or permission of instructor.

5391. Athenian Democracy. This seminar examines the development of democratic government in Athens and studies the functioning of that government in peace and in war.

5392. Seminar in European History. Intensive examination of major topics in European history. *Prerequisite:* Junior standing or permission of instructor.

Latin American History

Students planning a concentration in Latin American History are urged to take HIST 2384 and 2385, followed by HIST 4380 and 4381.

2384 (CFA 3318). Latin America: The Colonial Period. An introductory survey covering the development of Latin American society from prediscovery to the early 19th century.

2385 (CFA 3319). Latin America in the Modern Era. An introductory survey beginning with the 19th-century wars of independence from Spain and Portugal and emphasizing the 20th century as the new nations struggle for political stability and economic independence.

3317. Women in Latin-American Societies. The female experience in the formation of Latin American colonial societies. The theoretical explanation of womanhood within the ideology of the Spanish counter-reformation and its application to the daily life of women will be studied.

3320. The Spanish Frontier in North America, 1513–1821. *(Also listed under United States History.)* The exploration, colonization and development of the Southwest under Spanish rule, 1513 to 1821, including interaction with Indian peoples. (For history majors, fulfills United States or Latin American requirement.)

3321. The American Southwest. *(Also listed under United States History.)* History of the American Southwest, from the initial penetration in 1821 to the present.

3380. Problems in Ibero-American History. Allows students to study special topics on a comparative or thematic basis. Avoids the strictly national, chronological approach to history in favor of topical organization.

3382. History of Mexico. Studies pre-Columbian, colonial and independent Mexico. Stresses culture and social developments.

3386. History of the Caribbean. A survey of Caribbean history aimed at identifying common and contrasting themes in this very diverse part of the world. Topics include the Caribbean before 1492, the slave trade, sugar and the plantation economy, abolition, the dependent Caribbean, and the false promise of independence.

4380. History of Spain to 1492. *(Also listed under European History.)* The main social, political and cultural topics of the history of the Iberian Peninsula before Ferdinand and Isabella, focusing on the Roman and Medieval periods. (For history majors, fulfills only European requirement.)

4381. History of Spain, 1469 to the Present. *(Also listed under European History.)* The main social, political and cultural topics of the history of the Iberian Peninsula from Columbus to the present. (For history majors, fulfills only European requirement.)

For Undergraduate and Graduate Students

5330, 5331. Seminar in Mexican-American History. *(Also listed under United States History.)*

5382. Seminar in Latin American History. Intensive examination of major topics in Latin America history.

African, Asian and World History

1323. First-Year Seminar in Non-Western History. Offers the beginning student the opportunity to explore particular topics in non-Western history intensively in a small class setting.

2355. History of the Ancient Near East and Egypt. An introduction to the ancient civilizations of Mesopotamia, Israel, Anatolia and Egypt. Examines changing ancient cultures as they contact (or conquer) each other as seen through their literature, histories and archaeological remains.

2379. A History of Islamic Empires. This course introduces students to the history of various Islamic empires and covers the period from 600 to 1750.

2390. Civilization of India. Introduction to the history, society, and cultural features of South Asia from the third millennium B.C.E. to the modern day.

2391. Africa to the 19th Century. History of Africa south of the Sahara, focusing on culture and social organization, the Bantu migrations, African kingdoms, contacts with the world, Islam, and the slave trade.

2392. Modern Africa. An introduction to the history of Africa since 1800. Focuses on a number of themes to enable a better understanding of the recent past of this vast continent. Major topics include 19th-century social, political and economic revolutions in Southern and West Africa, the incorporation of the continent into the capitalist world economy, class formation under colonial rule, the rise of nationalism, and the politics of liberation.

2393 (FL 3396). Japan Before 1850. Japan from its origins through the Tokugawa period. Themes include the military and the emperor in the polity, religions in society and culture, and the continuous, contested creation of identity.

2394 (FL 3397). China Before 1850. Examines changes and continuities from Neolithic times to 1850 in Chinese state, society and religion, and the relations among the three spheres, through scholarly writings and primary sources.

2395 (FL 3398). Modern East Asia. A survey of modern East Asia emphasizing an outline of the traditional societies, the Western impact, Japanese industrialization and imperialism, Pearl Harbor and the rise of Chinese communism.

3325. Islam and Politics. This course aims to familiarize students with the basics of Islam and explore the relationship between Islam as religion and Islam as ideology.

3326 (CF 3310). The Venture of Islam. An introduction to Islamic civilization through an examination of Islamic history and society, arts and letters, and science, as well as philosophy and the legal order. Considers the response of Islam to the challenge posed by the West.

3371. Conflicts in the Modern Middle East. Examines the Arab-Israeli conflict, other regional conflicts and the U.S.-USSR Cold War in the Middle East.

3377. History of South Africa. A survey of the history of South Africa from the 17th century to the present. Emphasis on the historical development of the patterns of economic, social and political interaction among the peoples that led to the emergence of a majority-ruled, "new" South Africa.

3378. Problems in African History. Examines a particular topic in the history of Africa. Potential topics include the trans-Saharan caravan system, the arrival and spread of Islam, the rise of African-European cultures, the slave trade, the abolition of slavery, imperialism and colonial transformations, nationalism, liberation movements, independence and underdevelopment, and democratization.

3387 (CF 3315). Asia and the West. Goods, ideas, religions, artistic styles, technologies, soldiers and diseases have long traveled between East and West. Scholarship, primary sources, literature and film illuminate the material and ideological effects of the exchanges.

3389. Problems in Middle Eastern History. A contemporary topic is treated in historical perspective. Sample topics include the Arab-Israeli conflict, oil and the politics of energy, and Islamic fundamentalism.

3390. Modern Middle East: 1914 to the Present. This survey course introduces students to the history and politics of the contemporary Middle East.

3392 (CF 3349, FL 3349). The African Diaspora: Literature and History of Black Liberation. Examines the role of black literature in bringing on the collapse of European colonial order and as a major force in the struggle against neocolonialism today. Explores links between literature and politics, literature and history, and thought and action in 20th-century Africa and the Caribbean.

3393. China in Revolution. Examines the "century of revolution" in China, from the mid-19th century to the present, beginning with the unique political and social structure of "Old China," and analyzing the impact of Western imperialism and the creative responses of intellectuals, warlords and revolutionaries.

3395. Problems in Asian History. Explores historical issues, trends or special topics in Asian history using a thematic or comparative format.

3396. Middle Eastern Economic History. Examines economic patterns in Middle Eastern history, politics and social life from the 18th century until the present.

3398. Women in Chinese History. Examines changes and continuities from Neolithic times to today in women's roles in politics and the state, religions and ideologies, the family and its alternatives, and production and consumption.

5395. A History of Iran. This seminar introduces students to the history, cultures and peoples of Iran and familiarizes them with this complex and increasingly important country.

HUMAN RIGHTS MINOR

www.smu.edu/humanrights

Rick Halperin, **Director**

The human rights minor, which is appropriate for all majors, is an interdisciplinary program introducing students to the study of universally recognized civil, political, economic, social and cultural human rights.

The minor requires a minimum of six courses (18 term hours), of which at least four courses must be at the advanced level (3000 or above). HIST 3301 Human Rights: America's Dilemma is required for this minor. In addition to this foundation course, no more than two courses from any department may be taken unless preapproval is given by the director of the Human Rights Education Program.

In addition to classes, the minor also requires a commitment of students' effort, time and talent in defense of or in advocacy for human rights. Students will either complete a 20-hour service-learning placement with a human rights community-based agency (as a component of HIST 3301) or will receive independent credit (HIST 4398, 4399) by participating in an SMU Human Rights Education Program group tour to a location where recent human rights violations have occurred (e.g., Cambodia, Rwanda, Poland) and completing a research paper on a human rights topic related to the site.

Course Requirements

In addition to HIST 3301, students must take at least five courses from the following list:

ANTH 1321 First-Year Seminar in Anthropology
ANTH 2301 Introductory Cultural Anthropology
ANTH 3301 Health, Healing and Ethics: Cross Cultural Perspectives on Sickness and Society
ANTH 3310 Gender and Sex Roles: A Global Perspective
ANTH 3311 Mexico: From Conquest to Cancun

ANTH 3327 Culture Change and Globalization: Social Science Perspectives
ANTH 3333 The Immigrant Experience
ANTH 3336 Gender and Globalization: Cultural and Ethical Issues
ANTH 3348 Health as a Human Right
ANTH 3351 Forensic Anthropology: Stories Told by Bones
ANTH 3353 Indians of North America
ANTH 3354 Latin America: People, Places and Power
ANTH 3358 Indians of the Southwest From the 16th Century to the Present
ANTH 3388 Warfare and Violence: The Anthropology and Ethics of Human Conflict
ANTH 4303 Political Economy of Health
ANTH 4305 Applied Anthropology
ANTH 4309 Human Rights, Indigenous Peoples and Nation States
ARHS 4349 Seminar in Contemporary Art: Why We Go to Auschwitz: Art, Trauma and Memory
CCJN 5305 Human Rights and the Journalist
CTV 2384 War on Film
ENGL 1365 Literature of Minorities
ENGL 3367 Ethical Implications of Children's Literature
ENGL 3383 Literary Executions: Imagination and Capital Punishment
FL 3377 Shadows of Enlightenment: Human Rights in Germany
HIST 2391 African to the 19th Century
HIST 2392 Modern Africa
HIST 2395 Modern East Asia
HIST 3301 Human Rights: America's Dilemma (required)
HIST 3304 Blacks and the Civil Rights Movement
HIST 3306 Colony to Empire: U.S. Diplomacy, 1789–1941
HIST 3307 The U.S. and the Cold War, 1945–1989
HIST 3312 Women in American History
HIST 3313 African Americans in the United States, 1607–1877
HIST 3314 African Americans in the United States, 1877–Present
HIST 3317 Women in Latin-American Societies
HIST 3322 Native American History
HIST 3341 Soviet/Post-Soviet Society and Politics, 1917 to Present
HIST 3363 The Holocaust
HIST 3371 Conflicts in the Modern Middle East
HIST 3390 Modern Middle East: 1914–Present
HIST 3392 The African Diaspora: Literature and History of Black Liberation
HIST 3393 China in Revolution
HIST 3401 The Good Society
HIST 4363 Inside Nazi Germany
HIST 4398, 4399 Independent Study (for group tour credit)
HIST 5340 Seminar in American History: Women's Rights in the United States
PHIL 3371 Social and Political Philosophy
PHIL 3374 Philosophy of Law
PHIL 3377 Animal Rights
PHIL 3380 Ethical Theory
PLSC 1380 Introduction to International Relations
PLSC 3345 Governments and Politics of the Middle East
PLSC 3346 Governments and Politics of Japan
PLSC 3347 Governments and Politics of Africa
PLSC 3348 Governments and Politics of Latin America
PLSC 3352 Chinese Politics
PLSC 3358 Government and Politics of Russia

PLSC 3381 Current Issues in International Politics
PLSC 3383 The American Foreign Policy Process
PLSC 4321 Basic Issues in American Democracy
PLSC 4337 Civil Rights
PLSC 4339 Women and the Law
PLSC 4380 Contemporary Issues in International Relations
PLSC 4381 National Security Policy
RELI 3321 Religion and the Holocaust
SOCI 3305 Race and Ethnicity in the United States
SOCI 3363 Crime and Delinquency
SOCI 3370 Minority-Dominant Relations
SOCI 4360 Gangs in the United States: Developing Historical, Social and Theoretical Understandings of a Modern Problem
SOCI 4364 Correctional Systems
SPAN 3313 Conversation and Composition: Latin American Culture
WGST 2309 Lesbian and Gay Literature and Film: Minority Discourse and Social Power
WGST 3310 Gender and Human Rights

INDIVIDUALIZED STUDIES IN THE LIBERAL ARTS

Associate Dean for Academic Affairs, Director

The individualized studies major in the liberal arts provides students an opportunity to design an interdisciplinary program of study that brings fields of inquiry together in unique combinations not currently offered as a program in the curriculum.

Interested and academically qualified students are invited to explore this possibility with the associate dean for Academic Affairs of Dedman College, 214-768-2168. If the student's plan of study appears to have merit, the dean will suggest faculty members in appropriate departments and divisions of the University who can provide further assistance in designing the program. Students must ask at least three faculty members to constitute a Faculty Supervisory Committee, with one serving as chair.

Program Description

Students with at least a 3.5 GPA in the first 24 term hours taken through enrollment at SMU are eligible to pursue the Individualized Studies program.

The program consists of individually designed majors in the liberal arts of at least 36 term hours, with a minimum of at least 24 term hours of advanced courses (3000 level or above). The program must satisfy the General Education Curriculum requirements and all other University and Dedman College graduation requirements. Students are responsible for fulfilling all prerequisites for courses taken.

The degree will be identified as a B.A. The transcript will refer to the major as "Individualized Studies in the Liberal Arts." A note on the transcript will denote the specialization. Students intending to seek admission to graduate schools are encouraged to include at least 30 hours of a coherent set of courses in an identifiable disciplinary field.

The following should be submitted to the program's director:

1. Formal plan of study (including goal statement and major plan).
2. Transcript.

With the director's approval and written approval of the Faculty Supervisory Committee, materials will be submitted to the Dedman College Undergraduate Council for action.

Administrative Procedures

The Dedman College Undergraduate Council shall have the final authority to approve all individualized programs. The associate dean for Academic Affairs will act as the director of the Individualized Studies program.

Prior to declaring the major, a number of steps must be completed:

1. The student, with the assistance of the director, must form a Faculty Supervisory Committee with a minimum of three members. The committee will provide advice and guidance to the student. At least two members, including the chair of the committee, shall be resident members of the Dedman College faculty.
2. The student will submit a plan of study to the director and to each Faculty Supervisory Committee member. If the committee and the director approve the plan of study, the plan is then submitted for approval by the Dedman College Undergraduate Council.
3. The plan is transmitted to the Office of the Associate Dean for Student Academic Affairs and to the Dedman College Dean's Office.

The plan of study must be submitted to the Dedman College Undergraduate Council for approval before the completion of 60 total term hours of coursework.

The chair of the Faculty Supervisory Committee and the Dedman College Dean's Office will recommend candidates for graduation. The dean of Student Records will be responsible for verifying and certifying graduation requirements.

INTERNATIONAL AND AREA STUDIES

www.smu.edu/internationalstudies

The International and Area Studies programs provide students with the opportunity to design interdisciplinary programs of study that will give them an understanding of the human experience in a global perspective, while at the same time allowing them to develop in-depth knowledge and expertise in specific geographical areas. These programs include 1) a major or minor in international studies, 2) a minor in Asian studies, 3) a minor in European studies, and 4) a major or minor in Latin American and Iberian studies. Descriptions of each of these programs along with their degree requirements are listed below.

To succeed in an international career, students need expertise in the politics, economics, history, language and cultures of societies other than their own. The curricula for the International and Area Studies programs are designed to provide students with a foundation for this expertise, requiring coursework in the social sciences, business, language and humanities. To maximize the educational experience in these degree programs, all majors are strongly encouraged to spend at least one term or summer studying abroad. The University offers numerous study-abroad opportunities around the world; most of these courses may be applied to the international and area studies major or minor. For more information, see the Study Abroad section in this catalog, as well as the requirements for each of the programs listed below.

International Studies

Professor Stephen Wegren, **Director**

The major in international studies requires 33 hours of study in specific courses in addition to prerequisites for certain courses; this includes 15 hours of study from the International Studies basic curriculum. At least 18 hours from the basic and Area Studies curriculums (listed below) must be in courses at the 3000 level or above. A cocurricular requirement for the B.A. degree in international studies is

two years of college-level study of a foreign language or equivalent. The language requirement may be met through examination, the transfer of language study credit from another university or by taking courses on campus. The final three-hour requirement for the B.A. in international studies is the seminar that must be taken on campus; students normally take the seminar in their senior year.

INTL 4388. Seminar: International Government and Politics. An overview of the central questions in the study of international government and politics. This senior seminar in international studies is a required course for all international studies majors. The purpose of the seminar is to provide students with an opportunity to integrate studies. The topic of the seminar is thematic and will vary depending upon the instructor.

The minor in international studies requires 15 hours of study from the basic curriculum, nine hours of which must be in courses at the 3000 level or above. A cocurricular requirement for the minor is one year of college-level study of a foreign language or equivalent.

Basic Curriculum

The first 15 hours (constituting a minor in international studies) must include one course from the category Introduction to World Cultures, one course from International Politics, one course from International Economics and two courses from Global Perspectives (listed below). Of the 15 hours required in the basic curriculum, at least six hours must be in courses at the 3000 level or above. A total of five classes must be taken from the basic curriculum.

Introduction to World Cultures

ANTH 2301 Introductory Cultural Anthropology
HIST 1302 World Cultures and Civilization
SOCI 2377 Markets and Cultures

International Politics

PLSC 1340 Introduction to Comparative Politics
PLSC 1380 Introduction to International Relations

International Economics

ECO 3321 International Economic Policy (*Prerequisites:* ECO 1311 and 1312)
ECO 4357 International Trade (*Prerequisite:* ECO 3301)
ECO 4358 International Macroeconomic Theory and Policy (*Prerequisite:* ECO 3302)
PLSC 3389 International Political Economy (also SMU-in-Oxford)

Global Perspectives

ADV 3354 International Advertising (SMU-in-London)
ANTH 3301 Health, Healing and Ethics
ANTH 3310/SOCI 3301 Gender and Sex Roles: A Global Perspective
ANTH 3327 Culture Change and Globalization: Social Science Perspectives
ANTH 3333 The Immigrant Experience
ANTH 3336 Gender and Globalization: Cultural and Ethical Issues
ANTH 3344 Cultural Aspects of Business
ANTH 3348 Health as a Human Right
ANTH 3365 The Rise and Fall of Superpowers
ANTH 3366 Magic, Myth and Religion Across Cultures
ANTH 3368/Soci 3368 Urban Life: A Cross-Cultural Perspective
ANTH 3384 Paradise Lost? The Archaeology and Ethics of Human Environmental Impacts
ANTH 3388 Warfare and Violence
ANTH 4303 Political Economy of Health
ANTH 4304 Migration and Ethnicity

ANTH 4307 Seminar in International Health
ANTH 4309 Human Rights, Indigenous Peoples, and National States
ANTH 4384 Global Issues and Development: An Overview (Seniors only)
ARHS 1307 World Art Traditions: A Survey
BA 3300 Topics in International Management (Study abroad programs)
CCPA 3321 International Public Relations (SMU-in-London)
CTV 2351 International Film History
CTV 4399 Global Media Systems
ECO 5359 Economic Development: Microeconomic Perspectives
ECO 5360 Economic Development: Macroeconomic Perspectives (*Prerequisites:* ECO 3301 and 3302)
ECO 5361 Natural Resources and Energy Economics
ECO 5362 Economic Growth
ENGL 3354 Non-Western Culture and Literature (20th-century, Third World texts)
FINA 4329* International Finance (*Prerequisite:* FINA 3320)
HIST 2380 Ethnic Regions in the Western World
HIST 3301 Human Rights: America's Dilemma
HIST 3306 Colony to Empire: U.S. Diplomacy 1789–1941
HIST 3307 The U.S. and the Cold War
HIST 3337 Ethical Dilemmas in a Global Age
HIST 3368 Warfare in the Modern World
HIST 3397 Modernity and Crises of Identity
HIST 3399 U.S. Foreign Policy from the Spanish-American War to Vietnam
MKTG 3300 Marketing Management Field Project (SMU-in-Copenhagen)
MKTG 3348* International Marketing
PLSC 3342 Making Democracy Work
PLSC 3365 Communism and Post-Communism
PLSC 3381 Current Issues in International Politics
PLSC 3382 International Organizations: Global and Regional
PLSC 3383 The American Foreign Policy Process
PLSC 3387 Political Geography
PLSC 3390 Negotiating International Trade
PLSC 4342 Why Nations Revolt
PLSC 4354 The Third World and North-South Relations
PLSC 4380 Special Studies in International Relations
PLSC 4380 From Marx to Market (SMU-in-Paris)
PLSC 4381 National Security Policy
PLSC 4382 The Politics of Military Force
PLSC 4391 NAFTA and Free Trade in the Americas
PLSC 4398 Nuclear Weapons and World Politics
RELI 1304 Introduction to Western Religions
RELI 3366/ANTH 3366 Magic, Myth and Religion Across Cultures
SOCI 3340 Global Society
SOCI 4321 Immigration and Population Issues

* *Available only to business majors with a minor or second major in international studies*

Area Studies Curriculum

The Area Studies curriculum requires international studies majors to specialize in a particular geographical region, defined by a common historical and cultural experience. Students may choose to specialize in Asian, Latin American and Iberian, European, or African and Middle Eastern studies. A total of 15 hours must

be taken in one of the Area Studies programs listed below. Nine hours must be taken from Group I: Social Sciences, and six hours must be taken from Group II: Humanities and Arts, in the same geographical area.

Special Undergraduate Offerings

Opportunities for independent study and research are available to international studies majors. Students must have the director's approval prior to registering for these courses. Prerequisites are stated for each independent study course below. No more than two such courses may be counted toward overall major or minor requirements. The director will indicate where these courses fit in the different sections of the major or the minor.

INTL 4302. Directed Readings in International Studies. Students develop and execute independent reading or research projects under the guidance of an International Studies faculty member, culminating in a written report. *Prerequisites:* Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

INTL 4306. Internship in International Studies. Undergraduate students who arrange for part- or full-time jobs in fields associated with international studies relate these experiences to their academic curriculum through research and writing, under the guidance of an International Studies faculty member. *Prerequisites:* Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced preparation.

INTL 4307. Departmental Distinction Thesis. Candidates for departmental distinction write a thesis under the direction of an International Studies faculty member, culminating in an oral examination over the field of the thesis. *Prerequisite:* Admission to departmental honors candidacy.

Asian Studies

Professor Johan Elverskog, **Coordinator**

The minor in Asian studies provides students with an opportunity to design an interdisciplinary program of study that will give them an in-depth knowledge of the history, politics, society and culture of traditional and contemporary Asia. The program embraces all of the subregions of Asia, including East Asia (China, Japan and Korea), South Asia (India, Pakistan and Bangladesh) and the many countries of Southeast Asia. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Asia. Most of the courses taught in University Study Abroad programs in Asia may be applied to the Asian studies minor.

The minor in Asian studies requires 15 hours of study in specific courses. The first six hours must be chosen from the four categories of the International Studies basic curriculum (see above). Each of the two courses must be from a separate category: either World Cultures, International Politics, International Economics or Global Perspective. The next nine hours must be chosen from the Asian Studies curriculum (listed below), with at least one course in each of the two groups: Group I: Social Sciences or Group II: Humanities and Arts. At least nine hours must be at the 3000 level or above. *If a student is an international studies major, only one course from the Area Studies curriculum may be double-counted.* A cocurricular requirement for the minor in Asian studies is one year of college-level study of an Asian language. This requirement may be met through examination, the transfer of language study credit from another university or by taking courses on campus.

Group I: Social Sciences

ANTH 3316 Cultures of the Pacific Islands
ANTH 3317 Peoples of Southeast Asia
ANTH 3323 East Asian Cultural Traditions
ANTH 4390 Asian Society: Study Tour and Seminar (SMU-in-Australia)
BA 3300 Japanese Business (SMU-in-Japan)
ECO 4357 Japanese Economy (SMU-in-Japan)
FL 3350/SOCI 3341 Perspectives on the East Asian Woman
FL 3395 A Cultural Journey to China (SMU-in-Suzhou)
HIST 2393 Japan Before 1850
HIST 2394 China Before 1850 (also SMU-in-Japan)
HIST 2395 Modern East Asia
HIST 3387 Asia and the West
HIST 3393 China in Revolution
HIST 3395 Problems in Asian History
HIST 3398 Women in Chinese History
HIST 4394 Modern History of China (SMU-in-Taipei)
PLSC 3346 Governments and Politics of Japan (also SMU-in-Japan)
PLSC 3352 Chinese Politics
PLSC 4340 Special Studies in Comparative Government and Politics
PLSC 4353 Governments and Politics of East Asia
SOCI 3300 Japanese Society (SMU-in-Japan)

Group II: Humanities and Arts

ARHS 1305 Introduction to Far Eastern Art
ARHS 3394 Arts and Architecture of Japan (also SMU-in-Japan)
ARHS 3395 Arts and Architecture of India
ARHS 3396 Art and Architecture of China (also SMU-in-Taipei)
CHIN 4381 Readings in Chinese Literature and Culture
CHIN 4382 Chinese Culture and Society in Film
FL 3310 Transnational Chinese Cinema
FL 3312 Women in Modern China
FL 3322 Japanese Literature in Translation (SMU-in-Japan)
FL 3325 Perspectives on Modern China
FL 3395 A Cultural Journey to China (SMU-in-Suzhou)
RELI 1303 Introduction to Eastern Religions
RELI 3306 Introduction to the Hindu Tradition
RELI 3307 Introduction to Buddhism
RELI 3365 Understanding the Self: East and West
RELI 3367 The Religious Life of China and Japan (SMU-in-Japan)
RELI 3376 Constructions of Gender: Sexuality and the Family in South Asian Religions
RELI 3377 The Cultural History of Tibet
RELI 3378 Religions of China
RELI 3382 Mysticism, East and West
RELI 3384 Hinduism and Colonial Encounters
RELI 3385 Philosophies of India

European Studies

Professor Daniel Orlovsky, **Coordinator**

The minor in European studies provides students with an opportunity to design an interdisciplinary program of study that will give them an in-depth knowledge of European history, culture, politics and society. The program embraces all of Europe, from the Atlantic (including Great Britain and Ireland) to the Urals (including

Russia), from 1700 to the present. In the last half of the 20th century, but especially since the end of the Cold War, Europe has been integrating economically, culturally and politically; the program is designed to take account of specific national cultures and traditions. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Europe. Most of the courses taught in University Study Abroad programs in Europe may be applied to the European studies minor.

The minor in European studies requires 15 hours of study in specific courses. The first six hours must be chosen from the four categories of the International Studies basic curriculum (see above). Each of the two courses must be from a separate category: either World Cultures, International Politics, International Economics or Global Perspectives. The next nine hours must be chosen from the European Studies curriculum (below), with at least one course in each of the two groups: Group I: Social Sciences or Group II: Humanities and Arts. At least nine hours must be at the 3000 level or above. *If a student is an international studies major, only one course from the Area Studies curriculum may be double-counted.* A cocurricular requirement for the minor in European studies is two years of college-level study of a European language, other than English. This requirement may be met through examination, the transfer of language study credit from another university or by taking courses on campus.

Group I: Social Sciences

ANTH 3355 Society and Culture in Contemporary Europe
ANTH 3355/PLSC 4343 Nationalism in Europe (SMU-in-Copenhagen)
BA 3300 European Business Environment: The EU (SMU-in-Copenhagen)
BA 4315 EU Seminar (SMU-in-Copenhagen)
HIST 2366 Europe in the Modern World, 1760 to Present
HIST 3303 Modern England, 1867 to the Present
HIST 3328 Economic History of Europe: 1000 A.D. to the Present
HIST 3330 Women in Modern European History
HIST 3334 France Since 1789
HIST 3340 The Revolutionary Experience in Russia, 1900–1930
HIST 3341 Soviet/Post-Soviet Society and Politics, 1917 to the Present
HIST 3343 20th-Century European History (SMU-in-Copenhagen)
HIST 3346 Modern England, 1714 to the Present (SMU-in-Oxford)
HIST 3363 The Holocaust
HIST 3365/3366 Problems in European History
HIST 3365 The Making of Modern Europe (SMU-in-Spain)
HIST 3366 France, America, and the Atlantic World (SMU-in-Paris)
HIST 3367 Revolutions in European History
HIST 3374 Diplomacy in Europe: Napoleon to the European Union (also SMU-in-Paris)
HIST 3376 Social and Intellectual History of Europe
HIST 3381/PLSC 4340 Political History of Contemporary Spain (SMU-in-Spain)
HIST 3383 Habsburg Monarchy: Making of East Central Europe
HIST 3385 The Balkan Peninsula in Its European Context
HIST 4314 The Jews in Europe (SMU-in-Copenhagen)
HIST 4363 Inside Nazi Germany
HIST 4369 History of Modern Germany
HIST 4381 History of Spain, 1469 to the Present
HIST 4388 Georgian and Victorian England, 1714–1867 (SMU-in-Oxford)
HIST 5367 Russia From the Kievan Era to 1881
HIST 5371 The French Revolution and Napoleon, 1789–1815

HIST 5373 Europe from Bismarck to WWI, 1870–1918
HIST 5374 Recent European History, 1918 to the Present
HIST 5376 Europe in the Age of Enlightenment, 1715–1789
HIST 5390 Seminar in Russian History
HIST 5392 Seminar in European History
OBBP 3300 Business Relations With Russia and Central Europe (SMU-in-Copenhagen)
PLSC 3340 Western European Politics
PLSC 3351 Russia: Politics and Society (SMU-in-Copenhagen)
PLSC 3358 Government and Politics of Russia
PLSC 3359 From Communism to Democracy
PLSC 4340 Anglo-American Democracy (SMU-in-Oxford)
PLSC 4340 Danish Politics and Society (SMU-in-Copenhagen)
PLSC 4340 Special Studies in Comparative Government and Politics
PLSC 4358 Soviet Politics: Revolution to Revolution
PLSC 4380 Historical and Contemporary Issues of the European Construction (also SMU-in-Paris)
PLSC 4384 American-Russian Relationship
PLSC 5341 European Politics: The European Union
PLSC 5383 European Conflict and Security Issues (SMU-in-Copenhagen)
SOCI 5363 Criminal Justice in Scandinavia (SMU-in-Copenhagen)

Group II: Humanities and Arts

ARHS 1331 Nineteenth Century European Art
ARHS 1332 Twentieth-Century Art: Sources and Styles of Modern Art
ARHS 2352 From Impressionism to Abstract: European Art, 1870–1920 (SMU-in-Copenhagen)
ARHS 3329 Paris Art and Architecture I (SMU-in-Paris)
ARHS 3332 Masters of European Art (SMU-in-Copenhagen)
ARHS 3333 Art and Architecture in Italy (SMU-in-Italy)
ARHS 3339 El Greco to Goya: Spanish Painting of the Golden Age
ARHS 3344 Paintings at the Prado (SMU-in-Spain)
ARHS 3346 Paris Art and Architecture II (SMU-in-Paris)
ARHS 3347 Eighteenth-Century European Art and Theatre: Staging Revolution
ARHS 3352 Impressionism, Symbolism and the Deviant Body: Making a Difference (also SMU-in-Paris)
ARHS 3353 Impressionism in Context (SMU-in-Paris)
ARHS 4344/HIST 3349 Images of Power: Kings, Nobles and Elites (SMU-in-Paris)
CTV 2352 History of European Film (SMU-in-Copenhagen)
CTV 3310 Themes in European Film (SMU-in-Copenhagen)
CTV 3310 Screen Artists (SMU-in-Italy)
CTV 4305 Motion Pictures of Paris (SMU-in-Paris)
ENGL 3341 British Literary History II
ENGL 3344 Victorian Gender
ENGL 3360 Writers in Paris: The Invention of Modernism (SMU-in-Paris)
FL 2343 After Communism
FL 3303/SPAN 3373 Spanish Civilization (also SMU-in-Spain)
FL 3307 The Belle Epoque and the Birth of Modernity (SMU-in-Paris)
FL 3323/HIST 2323 Russian Culture
FL 3331 Survey of Russian Literature in Translation
FL 3361 Special Topics: French Literature in Translation
FL 3369 Perspectives on Modern Germany
FL 3390 Italian Cinema
FL 3391/2 Italian Literature in Translation

FREN 4373 French Civilization (also SMU-in-Paris)
FREN 4374 French Civilization (also SMU-in-Paris)
FREN 4375 Introduction to French History and Culture
FREN 4376 Introduction to Francophone Cultures
PHIL 3333 European Thought: From Modernism to Postmodernism (SMU-in-Copenhagen)
PHIL 3352 History of Western Philosophy (Modern)
PHIL 3370 Nineteenth-Century Philosophy
PHIL 3370 Kierkegaard: Philosophy and the Meaning of Life (SMU-in-Copenhagen)
PHIL 3382 Twentieth-Century European Philosophy

Latin American and Iberian Studies

Professor Alan Covey, **Coordinator**

The Latin American and Iberian Studies program provides students with an opportunity to design an interdisciplinary program of study that will give them an in-depth knowledge of Ibero-American history, culture, politics and society. The program embraces all of the countries of Latin America and the Iberian Peninsula. It is designed to take account not only of specific national cultures and traditions, as they have developed in Latin America, but also of the importance of Latin cultures and Hispanic traditions in the United States. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Latin America, Spain or Portugal. Students wishing to attend study-abroad programs offered by other universities may have courses credited toward their major upon previous consultation with the coordinator of Latin American and Iberian Studies.

The major in Latin American and Iberian studies requires 27 credit hours plus a language requirement as follows:

1. A prerequisite of two years of college-level Spanish or Portuguese.
2. Six hours from the first three categories of the International Studies basic curriculum (see above). The two courses must be from a separate category: either World Cultures, International Politics or International Economics.
3. A mandatory sequence of six hours, which constitutes the core curriculum for the whole major.
   a. First sequence: HIST 2384 Latin America: The Colonial Period or HIST 3380 Problems in Ibero-American History (or SPAN 3374 Spanish-American Civilization).
   b. Second sequence: HIST 2385 Latin America in the Modern Era or PLSC 3348 Governments and Politics of Latin America.
4. Fifteen hours in 3000-level or above courses concentrating in one of the following groups: Group I: Social Sciences and Group II: Humanities and Arts. Students who want to take a course from the group in which they do not concentrate may do so upon the permission of the director of Latin American and Iberian Studies. Courses taken in the first and second sequence once taken do not double count for the group requirement. *If a student is also majoring in international studies, only two courses from the Area Studies curriculum may be double-counted.*

The minor in Latin American and Iberian studies requires 15 hours of study in specific courses. The first six hours must be chosen from the four categories of the International Studies basic curriculum (see above). Each of the two courses must be from a separate category: either World Cultures, International Politics, International Economics or Global Perspectives. The next nine hours must be chosen from the Latin American and Iberian Studies curriculum (below), with at

least one course in each of the two groups: Group I: Social Sciences or Group II: Humanities and Arts. At least nine hours must be at the 3000 level or above. *If a student is an international studies major, only one course from the Area Studies curriculum may be double-counted.* A cocurricular requirement for the minor in Latin American and Iberian studies is two years of college-level study of Spanish or Portuguese.

Group I: Social Sciences

ANTH 3311 Mexico: From Conquest to Cancun
ANTH 3313 South American Indians of the Past and Present
ANTH 3354 Latin America: Peoples, Places and Power
ANTH 3376 Caribbean Transformations
HIST 2384 Latin America: The Colonial Period
HIST 2385 Latin America in the Modern Era
HIST 3308 Film History of U.S. Hispanics
HIST 3317 Women in Latin American Societies
HIST 3320 The Spanish Frontier in North America, 1513–1821
HIST 3321 The American Southwest
HIST 3324 The Mexican Americans, 1848 to the Present
HIST 3380 Problems in Ibero-American History
HIST 3381/PLSC 4340 Political History of Contemporary Spain (SMU-in-Spain)
HIST 3382 History of Mexico
HIST 4380 History of Spain to 1492
PLSC 3348 Governments and Politics of Latin America
PLSC 3349 Politics of Major Latin American Countries
PLSC 4322 Latino Politics
PLSC 4340 Special Studies in Comparative Government and Politics (SMU-in-Spain)
PLSC 4356 Latin American Political Economy
PLSC 4385 Inter-American Relations
PLSC 4391 NAFTA and Free Trade in the Americas
SOCI 3370 Minority-Dominant Relations
SOCI 3372 Chicanos in the Southwest

Group II: Humanities and Arts

Spanish-language and literature courses are restricted to the major and minor in Latin American and Iberian studies. International studies majors may not take these courses for credit in international studies.

ANTH 3312 Meso-American Archaeology
ARHS 1308 Epic of Latin America
ARHS 3324 Arts and Cultures of Medieval Spain
ARHS 3338 Baroque Art in Italy, Spain and the New World
AHRS 3339 El Greco to Goya: Painting of the Golden Age
ARHS 3343 Goya and His Time
ARHS 3344 Paintings at the Prado (SMU-in-Spain)
ARHS 3360 Modern Painters in Spain (SMU-in-Spain)
ARHS 3376 Latin American Art
ARHS 3377 Art and Architecture of Hispanic New Mexico
ARHS 3382 Arts of the Ancient Andean Tradition: Chavin to Inca
ARHS 3383 The Ancient Maya: Art and History
ARHS 3385 The Aztecs Before and After the Conquest: Mesoamerica 1400–1600
ENGL 3363 Chicana/Chicano Literature

Please note that the following six courses are part of Group I: Social Sciences for the major in Latin American and Iberian studies. However, they remain in Group II: Humanities and Arts for A) the regional concentration on Latin America for the major in international studies and B) the minor in Latin American and Iberian studies.

FL 3303/SPAN 3373 Spanish Civilization (SMU-in-Spain)
FL 3305 Latin American Literature in Translation
FL 3306 The Heart of Aztlán: Chicano Literature of the Southwest
RELI 3353 Borderlands: Latino/Latina Religions in the United States
SPAN 3374 Spanish American Civilization (SMU-in-Xalapa)

Spanish Language and Literature Courses

SPAN 4361 Translation: Theory and Practice
SPAN 4391 Commercial Spanish for International Trade
SPAN 4395 Introduction to Hispanic Literature
SPAN 5310 Spanish Literature Before 1700
SPAN 5311 Spanish Literature Since 1700
SPAN 5315 Spanish American Literature to 1888
SPAN 5316 Spanish American Literature Since 1888
SPAN 5317 Literature of Mexico
SPAN 5320 The Renaissance and Golden Age: Drama
SPAN 5321 The Renaissance and Golden Age: Prose Fiction
SPAN 5323 Nineteenth-Century Prose Fiction of Spain
SPAN 5324 Twentieth-Century Poetry and Drama
SPAN 5325 Twentieth-Century Peninsular Prose Fiction
SPAN 5334 The Novel of the Post-Civil War Period
SPAN 5335 Genre Studies in Spain
SPAN 5336 The Spanish American Novel (also SMU-in-Xalapa)
SPAN 5337 The Spanish-American Essay
SPAN 5338 The Spanish American Short Story (also SMU-in-Xalapa)
SPAN 5339 Spanish American Poetry
SPAN 5360 The Concept of Honor in Spanish Literature
SPAN 5361 Don Quixote: The Idea, The Character, The Book
SPAN 5365 Contemporary Spanish Women Writers
SPAN 5370 Rewriting Discovery and Exploration in the Spanish Borderlands
SPAN 5375 Contemporary Fiction by Latin American Women Writers

Special Undergraduate Offerings

Opportunities for independent study and research are available to Latin American and Iberian studies majors. Students must have the approval of the program coordinator prior to registering for these courses. Prerequisites are stated for each independent study course below. No more than two such courses may be counted toward overall major or minor requirements. The director will indicate where these courses fit in the different sections of the major or the minor.

LAAM 4102, 4202, 4302. Directed Readings in Latin American and Iberian Studies. Students develop and execute independent reading or research projects under the guidance of a Latin American and Iberian Studies faculty member, culminating in a written report. *Prerequisites:* Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

LAAM 4306. Internship in Latin American and Iberian Studies. Undergraduate students who arrange for part- or full-time jobs in fields associated with Latin American and Iberian studies relate these experiences to their academic curriculum through research and writing, under the guidance of an International Studies faculty member. *Prerequisites:* Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced preparation.

African and Middle Eastern Studies

Professor Dennis Cordell, **Coordinator**

This course of study is offered as an area specialization for international studies majors only.

Group I: Social Sciences

ANTH 3314 Peoples of Africa
ANTH 3359 Peoples and Cultures of the Middle East
HIST 2355 History of the Ancient Near East and Egypt
HIST 2379 History of Islamic Empires
HIST 2391 Africa to the 19th Century
HIST 2392 Modern Africa
HIST 3326 The Venture of Islam
HIST 3378 Problems in African History
HIST 3386 History of the Caribbean
HIST 3389 Problems in Middle Eastern History
HIST 3390 The Modern Middle East: From the Ottoman Empire to OPEC
HIST 4364 History of South Africa: Background to Conflict
HIST 5395 A History of Iran
PLSC 3345 Government and Politics of the Middle East
PLSC 3347 Government and Politics of Africa

Group II: Humanities and Arts

ARHS 3306 Mummies, Myths and Monuments of Ancient Egypt: Art and Expression of Eternal Egypt
ARHS 3328 Byzantine Art
ARHS 3354 Modern and Contemporary Art of the Arab World
ARHS 3390 Traditional Arts of Africa
ARHS 3392 Islamic Art and Architecture: The Creation of a New Art
FL 3349/HIST 3392 The African Diaspora: Literature and History of Black Liberation
RELI 3329 Introduction to Islam
RELI 3372 Biblical Interpretation and the State of Israel

MARKETS AND CULTURE

www.smu.edu/sociology/majors/markets
Professor Linda Brewster Stearns, **Director**

The B.A. in markets and culture provides students the opportunity to learn about the world's market places from an interdisciplinary study in the social sciences and the humanities. Students will explore the economic principles of markets, the values and history of commerce, and the motives and myths that move people. By choosing from courses in a wide range of disciplines, including sociology, economics, anthropology, political science, history, psychology, literature and foreign languages, students will gain an understanding of the multiple institutions and cultures that shape the world's markets.

Requirements for the B.A. Degree. The markets and culture major requires 36 total hours, consisting of 24 hours of core classes and 12 hours of electives. Only six of the 12 elective hours may be double counted in another major or minor. The core classes provide the student with the appropriate tools to understand the social basis of economic behavior as well as basic business concepts and practices. A grade of *C-* or better must be earned in all courses fulfilling the major requirements, and markets and culture majors must attain a minimum GPA of 2.0 among all courses attempted for the major.

A cocurricular requirement for a degree in markets and culture is one year of college-level study of a foreign language or equivalent. Student majors are strongly encouraged to take advantage of opportunities for study abroad and internships to broaden their classroom experience.

Requirements for Departmental Distinction. The major offers graduation with distinction to select student majors of high academic achievement. The program is open to junior and senior majors. Interested students with a minimum 3.0 overall GPA and a 3.5 GPA in the major may consult with the director of the Markets and Culture Program for admission to the distinction track. If the director determines that the student has satisfied the requirements, the student may then request a faculty member to direct a distinction paper. The candidate's distinction paper must be a substantial piece of independent and original research. The research will be presented and evaluated by a distinction committee. Upon positive recommendation from this committee, the student will be awarded graduation with distinction.

Criteria for graduating with departmental distinction include the following:

1. A minimum 3.0 overall GPA at graduation.
2. A minimum 3.5 average in courses taken for the markets and culture major.
3. Preparation of a distinction thesis under the supervision of a faculty member while enrolled in SOCI 4396. SOCI 4396 will be taken in addition to all other requirements for the major. The faculty adviser's grade for the thesis must be *A-* or higher.
4. Pass an oral examination conducted by a faculty distinction committee, which reviews the candidate's thesis. The distinction committee includes the faculty adviser, the director of Markets and Culture, and one additional faculty member selected by the faculty adviser in consultation with the student.
5. Must have completed SOCI 2377, 3377 and ENGL 2302, with an average GPA of 3.5.

Core Courses

SOCI 2377 Markets and Culture
SOCI 3377 Organizations and Their Environment (*Prerequisite:* SOCI 2377)
SOCI 4377 Contemporary Markets and Culture (*Prerequisites:* SOCI 2377, 3377)
ECO 3355 Money and Banking (*Prerequisites:* ECO 1311, 1312) *or*
FINA 3330 Money and Capital Markets (*Prerequisite:* FINA 3320)
CSE 2337 Introduction to Data Management (ITOM 2308 may substitute) (*Prerequisite:* EMIS 1305; *Prerequisite or corequisite:* SOCI 2377)
ACCT 2301 Fundamentals of Accounting I
ENGL 2302 Business Writing (*Prerequisite:* SOCI 2377)
STAT 2301 Statistics for Modern Business Decisions (STAT 2331 *or* ITOM 2305 may substitute)

Elective Courses

A total of 12 advanced hours required. Courses must be selected from at least three departments, with no more than six hours in any one area.

ADV 3354 International Advertising (SMU-in-London)
ANTH 3305 The "Other" in America: Popular Perceptions and Government Policy Through Time
ANTH 3310 Gender and Sex Roles: A Global Perspective
ANTH 3311 Mexico: From Conquest to Cancun
ANTH 3314 Peoples of Africa
ANTH 3316 Cultures of the Pacific Islands
ANTH 3317 Peoples of Southeast Asia

ANTH 3327 Culture Change and Globalization: Social Science Perspectives
ANTH 3333 The Immigrant Experience
ANTH 3336 Gender and Globalization: Cultural and Ethical Issues
ANTH 3344 Cultural Aspects of Business
ANTH 3346 Culture and Diversity in American Life
ANTH 3350 Good Eats and Forbidden Flesh: Culture, Food and the Global Grocery Market (*Prerequisites:* Advanced standing and ANTH 2301, or permission of instructor)
ANTH 3354 Latin America: People, Places and Power
ANTH 3355 Society and Culture in Contemporary Europe
ANTH 3358 Indians of the Southwest from the 16th Century to the Present
ANTH 3361 Language in Culture and Society
ANTH 3366 Magic, Myth and Religion Across Cultures
ANTH 3368 Urban Life: A Cross-Cultural Perspective
ANTH 3374 Cultures and Environments of the Southwest
ANTH 4303 Political Economy of Health (*Prerequisites:* ANTH 2301, 3301 or permission of instructor)
ANTH 4304 Migration and Ethnicity (*Prerequisites:* 18 hours of anthropology or permission of instructor)
ANTH 4305 Applied Anthropology (*Prerequisites:* Advanced standing and ANTH 2301, or permission of instructor)
ANTH 4344 Global Population Processes: Anthropological Perspectives (*Prerequisites:* 18 hours of anthropology or permission of instructor)
ANTH 4384 Global Issues and Development: An Overview (*Prerequisites:* Advanced standing and ANTH 2301, or permission of instructor)
ANTH 4390 Current Issues in Anthropology
BA 3300 Business in Europe (SMU-in-Paris)
BA 3300 European Business Environment: The EU (SMU-in-Copenhagen)
BA 3300 Management and Ethics in a Cross-Cultural Context (SMU-in-Spain)
BA 3300 Special Topics: Japanese Business (SMU-in-Japan)
BA 3301 Economies in Transition: Doing Business with Russia and Eastern Europe (SMU-in-Copenhagen)
BA 4315 EU Seminar (SMU-in-Copenhagen)
CCPA 3321 International Public Relations (SMU-in-London)
CHIN 3311 Advanced Chinese (*Prerequisites:* CHIN 1401, 1402, 2401, 2402)
CHIN 3312 Advanced Chinese (*Prerequisite:* CHIN 3311)
CHIN 4411 China in the 1990s (SMU-in-Beijing)
CHIN 4412 Chinese Literature and Culture (SMU-in-Beijing)
ECO 3301 Price Theory (Intermediate Microeconomics) (*Prerequisites:* ECO 1311, 1312 and MATH 1309 or 1337)
ECO 3302 National Income and Employment (Intermediate Macroeconomics) (*Prerequisites:* ECO 1311, 1312 and MATH 1309 or 1337; *Corequisite:* ECO 3301)
ECO 3321 International Economic Policy (*Prerequisites:* ECO 1311, 1312)
ECO 4351 Labor Economics (*Prerequisites:* ECO 3301 and STAT 2301, 2331 or 4340)
ECO 4357 International Trade (*Prerequisites:* ECO 3301 and STAT 2301, 2331 or 4340)
ECO 4358 International Macroeconomic Theory and Policy (*Prerequisites:* ECO 3301, 3302 and STAT 2301, 2331 or 4340)
ECO 4366 Economics of the Public Sector (*Prerequisites:* ECO 3301, 3302 and STAT 2301, 2331 or 4340)
ECO 4368 Foundations of Financial Economics (*Prerequisites:* ECO 3301, 3355; ACCT 2311; and STAT 2301, 2331, 4340 or ITOM 2305)
ECO 5360 Economic Development (*Prerequisites:* ECO 3301, 3302 or permission of instructor)
ENGL 3354 Non-Western Culture and Literature (20th-century, Third World texts)

ENGL 3363 Chicana/Chicano Literature
ENGL 3365 Jewish-American Literature and Culture
FINA 4329 International Finance in a European Context (SMU-in-Copenhagen)
FL 3303 Spanish Civilization (SMU-in-Spain)
FL 3312 Women in Modern China
FL 3322 Japanese Literature in Translation (SMU-in-Japan)
FL 3325 Perspectives on Modern China
FL 3361 Special Topics: French Literature in Translation (SMU-in-Paris)
FL 3369 Perspectives on Modern Germany (*Prerequisite:* Sophomore standing or permission of instructor)
FL 3390 Italian Cinema
FL 3391, 3392 Special Topics: Italian Literature in Translation
FREN 3356 Advanced French II (*Prerequisite:* FREN 3455)
FREN 3455 Advanced French I (*Prerequisite:* FREN 2401)
FREN 4365 Introduction to French Cinema (*Prerequisites:* FREN 3356, 4370 or permission of instructor and chair)
FREN 4375 Introduction to French History and Culture (*Prerequisites:* FREN 3455, 3356, 4370)
FREN 4376 Introduction to Francophone Cultures (*Prerequisites:* FREN 3455, 3356, 4370)
FREN 4391 Commercial French for International Trade (*Prerequisites:* FREN 3455, 3356)
GERM 3311 Talking and Writing about Modern Germany (*Prerequisite:* GERM 2312 or equivalent)
GERM 3313 German Today: People, Culture, Society (*Prerequisite:* GERM 3311 or permission of instructor)
GERM 4350 History, Culture and Identity in Post-War German Film (*Prerequisite:* GERM 3320)
HIST 3303 Modern England, 1867 to the Present
HIST 3324 The Mexican Americans, 1848 to the Present
HIST 3326 The Venture of Islam
HIST 3327 Economic History of the United States
HIST 3328 Economic History of Europe: 1000 A.D. to the Present
HIST 3330 Women in Modern European History
HIST 3337 Ethical Dilemmas in a Global Age
HIST 3341 Soviet/Post-Soviet Society and Politics 1917 to Present
HIST 3343 Twentieth-Century European History (SMU-in-Copenhagen)
HIST 3349 Images of Power (SMU-in-Paris)
HIST 3364 Consumer Culture in the United States, 1770–1990
HIST 3365 Problems in European History: The Making of Modern Europe (SMU-in-Spain)
HIST 3366 Problems in European History
HIST 3374 Diplomacy in Europe: Napoleon to the European Union
HIST 3376 Social and Intellectual History of Europe
HIST 3380 Problems in Ibero-American History
HIST 3382 History of Mexico
HIST 3386 History of the Caribbean
HIST 3387 Asia and the West
HIST 3390 The Modern Middle East: From the Ottoman Empire to OPEC
HIST 3393 China in Revolution
HIST 3395 Problems in Asian History
HIST 3396 Middle Eastern Economic History
HIST 3397 Modernity and Crises of Identity
HIST 3398 Women in Chinese History
HIST 4314 The Jews in Europe (SMU-in-Copenhagen)
HIST 4365 Australian Society (SMU-in-Australia)

HIST 4369 History of Modern Germany
HIST 4381 History of Spain, 1469 to Present
HIST 5390 Seminar in Russian History (*Prerequisite:* HIST 3340 or 3341, or permission of instructor)
HIST 5392 Seminar in European History (*Prerequisite:* Junior standing or permission of instructor)
ITAL 3357 Italian Grammar and Composition (*Prerequisite:* ITAL 2401)
ITAL 3373 Italian Culture (*Prerequisite:* ITAL 2401)
JAPN 3311 Advanced Japanese
JAPN 3312 Advanced Japanese (*Prerequisite: C-* or better in JAPN 3311 or permission of area chair)
JAPN 3501 Japanese Level 2 (SMU-in-Japan)
JAPN 4381 Readings in Japanese Culture and Business (*Prerequisite:* JAPN 3312 or permission of area chair)
JAPN 4501 Japanese Level 3 (SMU-in-Japan)
MKTG 3340 Fundamentals of Marketing (*Prerequisites:* ENGL 1301, 1302; MATH 1309 or 1337; ECO 1311, 1312; ACCT 2301; and ITOM 2305, or STAT 2301 or 2311, or EMIS 4340 or 5370)
MNO 3300 Environmental Business Strategy (SMU-in-Copenhagen)
MNO 3301 Global Business Strategy (SMU-in-Copenhagen)
MNO 3370 Management of Organizations (*Prerequisites:* ENGL 1301, 1302; MATH 1309 or 1337; ECO 1311, 1312; ACCT 2301; and EMIS 4340 or 5370, or ITOM 2305, or STAT 2301 or 2331)
PHIL 3352 History of Western Philosophy (Modern)
PLSC 3340 Western European Politics
PLSC 3341 Politics of Participation and Representation in Western Democracies
PLSC 3345 Governments and Politics of the Middle East
PLSC 3346 Governments and Politics of Japan
PLSC 3347 Governments and Politics of Africa
PLSC 3348 Governments and Politics of Latin America
PLSC 3349 Politics of Major Latin American Countries
PLSC 3351 Russia: Superpower in Crisis (SMU-in-Copenhagen)
PLSC 3358 Government and Politics of Russia
PLSC 3359 From Communism to Democracy
PLSC 3365 Communism and Post-Communism
PLSC 3381 Current Issues in International Politics (SMU-in-Oxford)
PLSC 3382 International Organizations: Global and Regional
PLSC 3389 International Political Economy
PLSC 3390 Negotiating International Trade
PLSC 4322 Latino Politics
PLSC 4340 Special Studies in Comparative Government and Politics
PLSC 4353 Governments and Politics of East Asia
PLSC 4354 The Third World and North-South Relations
PLSC 4355 Comparative Political Economy of Industrialized Democracies
PLSC 4356 Latin American Political Economy
PLSC 4358 Soviet Politics: Revolution to Revolution
PLSC 4380 Special Studies in International Relations
PLSC 4386 Issues of U.S.-East Asia Relations
PLSC 4388 Seminar: International and Government Politics
PLSC 4391 NAFTA and Free Trade in the Americas
PLSC 4394 Modern History of China (SMU-in-Taipei)
PLSC 5341 European Politics: The European Union (SMU-in-Copenhagen)
PLSC 5383 Seminar on Regional Conflicts (SMU-in-Copenhagen)

PSYC 3365 Organizational Psychology (*Prerequisites:* PSYC 1300 and one additional 3-hour PSYC course)
PSYC 4363 Conflict Resolution (*Prerequisites:* PSYC 1300 and one additional 3-hour PSYC course)
RELI 3329 Introduction to Islam
RELI 3365 Understanding the Self: East and West
RELI 3366 Magic, Myth and Religion Across Cultures
RELI 3378 Religions of China
RELI 3382 Mysticism, East and West
SOCI 3305 Race and Ethnicity in the United States
SOCI 3311 Qualitative Research Methods (*Prerequisite:* SOCI 2300 or 2310)
SOCI 3312 Survey Research Methods and Data Analysis (*Prerequisite:* SOCI 2300 or 2310)
SOCI 3340 Global Society
SOCI 3345 Media Ethics and Gender
SOCI 3360 Law and Society
SOCI 3370 Minority-Dominant Relations
SOCI 3371 Sociology of Gender
SOCI 3372 Chicanos in the Southwest
SOCI 3383 Race, Culture and Social Policy in the Southwest
SOCI 4321 Immigration and Population Issues (*Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312)
SOCI 4335 Social Movements and Collective Behavior (*Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312)
SOCI 4340 Sociology of Culture (*Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312)
SOCI 4353 Political Sociology (*Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312)
SOCI 4373 Class, Race, and Gender Inequalities (*Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312)
SOCI 4379 Markets and Culture Internship (*Prerequisites:* 3.0 GPA in markets and culture major and 3.0 average in SOCI 2377, 3377)
SOCI 4401–4 Washington Term (*Prerequisites:* Two courses in the markets and culture major [at least one at the upper level] that are relevant to the selected program, and permission of the department chair)
SPAN 3311 Conversation and Composition: Peninsular Culture (*Prerequisite: C-* or better in SPAN 2401 or equivalent)
SPAN 3312 Conversation and Composition: Mexican Culture (*Prerequisite: C-* or better in SPAN 2401 or equivalent)
SPAN 3313 Conversation and Composition: Latin American Culture (*Prerequisite: C-* or better in SPAN 2401 or equivalent)
SPAN 3355 Spanish Conversation (*Prerequisite: C-* or better in SPAN 2401 or equivalent)
SPAN 3358 Advanced Spanish Grammar (*Prerequisite: C-* or better in SPAN 2401 or equivalent)
SPAN 3373 Spanish Civilization (SMU-in-Spain) (*Prerequisite: C-* or better in one 3000-level Spanish course)
SPAN 3374 Spanish-American Civilization (SMU-in-Xalapa, Mexico) (*Prerequisite: C-* or better in one 3000-level Spanish course)
SPAN 4391 Commercial Spanish for International Trade (*Prerequisites: C-* or better in SPAN 3358 and one of the following: SPAN 3311, 3312, 3313, 3355; or permission of instructor)
SPAN 4395 Introduction to Hispanic Literature (*Prerequisite: C-* or better in SPAN 3358, or departmental permission)
STRA 5370 Strategic Management in a Global Economy (*Prerequisites:* ACCT 2301, 2302; EMIS 4340 or 5370, or ITOM 2305, or STAT 2301 or 2331; FINA 3320; MKTG 3340; MNO 3370; ITOM 3306)

MATHEMATICS

www.smu.edu/math

Professor Douglas Reinelt, **Department Chair**

Professors: Alejandro Aceves, Ildar Gabitov, Richard Haberman, Thomas Hagstrom, Peter Moore, Douglas Reinelt, Johannes Tausch, Richard Williams. **Associate Professors:** Vladimir Ajaev, Thomas Carr, Robert Davis, Mogens Melander. **Assistant Professors:** Yeo-Jin Chung, Scott Norris, Daniel Reynolds, Brandilyn Stigler, Sheng Xu, Yunkai Zhou. **Lecturer:** Judy Newell. **Visiting Lecturer:** Adriana Aceves. ***Emeritus* Professors:** Ian Gladwell, Montie Monzingo, George Reddien, Lawrence Shampine.

Requirements for the B.S. Degree With a Major in Mathematics. The B.S. degree in mathematics reflects contemporary trends in mathematics by incorporating computer science, mathematical and computational modeling, natural science and statistics courses. This degree is particularly appropriate for students who wish to proceed toward careers in industry concentrating on analytical problem solving, or toward graduate schools in any mathematical science area. Computer science, economics, electrical engineering, mechanical engineering, management science, physics and chemistry provide attractive opportunities as areas for a double major with mathematics. With a minimum of 21 approved advanced hours in the major, the following courses are required:

	Term Hours
Fundamental Mathematics: **MATH 1337, 1338, 2339, 2343**	12
Natural Science: Choose two from **PHYS 1303, 1304; CHEM 1303, 1304; BIOL 1401, 1402;** one GEOL 1300-level course	6
Computer Science: **CSE 1341** or **1342**	3
Statistics: **STAT 4340/CSE 4340/EMIS 4340** (Students may substitute **STAT 5340/EMIS 5370** or **EE 3360**)	3
Advanced Mathematics Elective: MATH 3000+ course	3
Specialization: In each specialization, five courses must be taken – with a minimum of two courses at the 4000+ level, including at least one MATH 4000+ course.	15

Choose one of the following seven areas:

1. Applied and/or Numerical Mathematics
   MATH 3315/CSE 3365 (mandatory)
   Four from **MATH 3334, 3337, 3353, 4335, 5315, 5316, 5331, 5332, 5334, 5353; EMIS 3360**
2. Computer Science and Computer Engineering
   MATH 3315/CSE 3365 (mandatory), **CSE 4381** (mandatory)
   Three from **MATH 3353, 5315, 5316, 5332**
3. Engineering
   MATH 3315/CSE 3365 (mandatory), **MATH 3337** (mandatory)
   One from **MATH 5315, 5331, 5332, 5334**
   Electrical Engineering
   Two from **EE 3322, 3330, 3372, 5330, 5332, 5336, 5360, 5362, 5372**
   Mechanical Engineering
   Two from **ME 4360, 5302, 5320, 5322, 5336 (MATH 6336), 5361, 5386**
4. Civil Engineering
   MATH 3315/CSE 3365 (mandatory), **MATH 3337** (mandatory)
   One from **MATH 5315, 5331, 5332, 5334**
   Two from **CEE 5361, 5364; ME 5322**

5. Environmental Engineering
   MATH 3315/CSE 3365 (mandatory), **MATH 3337** (mandatory)
   MATH 6336/ME 5336 (mandatory)
   One from **MATH 5315, 5331, 5332, 5334**
   One from **CEE 5331, 5332, 5334**
6. Operations Research
   MATH 3315/CSE 3365 (mandatory), **EMIS 3360** (mandatory)
   Two from **MATH 3353, 5315, 5316, 5332, 5353**
   One from **EMIS 5361, 5362, 5369; STAT 5344/EMIS 5364**
7. Pure Mathematics
   Five from **MATH 3308, 3337, 3353, 4338, 4351, 4355, 4381, 5331, 5332, 5353**

Requirements for the B.A. Degree With a Major in Mathematics. The B.A. degree in mathematics is designed for students who need a traditional mathematics degree leading to careers in teaching, industry, business and government. It is particularly attractive when combined with liberal arts, social science or business administration as a double major. The requirements are the same as for the B.S. degree except that there is no natural science requirement. In exceptional circumstances, the Department of Mathematics may choose to waive one course (three credit hours) in mathematics.

MATH 6000-level courses may also be taken for either the B.S. or B.A. major by students who have fulfilled the prerequisites and have departmental permission.

NOTE: *All mathematics majors, either B.S. or B.A., must receive a grade of at least C- in all courses taken in fulfillment of the requirements for the mathematics major.*

Requirements for the Mathematics Minor. MATH 1337, 1338, 2339 and nine hours selected from mathematics courses at the advanced (3000+) level. MATH 2343 Elementary Differential Equations may replace an advanced-level mathematics course. All courses in the minor must be passed with a grade of *C-* or higher.

For All Undergraduates: After a student matriculates to SMU, transfer credit for MATH 1307, 1309 or 1337 will not be approved.

The Courses (MATH)

1303. Precalculus for Business. Inequalities, absolute value, graphs, functions, basic analytic geometry, polynomials, logarithms, exponentials, linear equations and mathematics of finance. *Prerequisite:* High school algebra. No credit given if taken after any calculus course. Credit not given for both 1303 and 1304. Intended for students planning to take MATH 1309.

1304. Precalculus Mathematics. Graphs, functions, basic analytic geometry, exponentials, logarithms, trigonometry and inverse functions. *Prerequisites:* High school algebra and trigonometry. No credit given if taken after any calculus course. Credit not given for both MATH 1303 and 1304. Intended for students planning to take MATH 1337.

1307. Introduction to Mathematical Sciences. Permutations and combinations, probability, Markov chains, linear programming, elementary statistics, and mathematics of finance. *Prerequisite:* High school algebra.

1309. Introduction to Calculus for Business and Social Science. Derivatives and integrals of algebraic, logarithmic and exponential functions, with applications to the time value of money, curve sketching, maximum-minimum problems and computation of areas. Applications to business and economics. (Natural science and engineering students must take MATH 1337. Credit not allowed for both MATH 1309 and 1337.) *Prerequisite:* Placement out of MATH 1303 or a grade of *C-* or higher in MATH 1303.

1337. Calculus I. Differential and integral calculus for algebraic, trigonometric and transcendental functions, with applications to curve sketching, velocity, maximum-minimum problems, areas and volumes. (Credit not allowed for both MATH 1309 and 1337.) *Prerequisite:* Placement out of MATH 1304 or a grade of *C-* or higher in MATH 1304.

1338. Calculus II. A continuation of MATH 1337 through differential and integral calculus, techniques of integration, improper integrals, and infinite sequences and series, including Taylor series. *Prerequisite:* A grade of *C*- or higher in MATH 1337, or MATH 1309 and departmental permission.

2339. Calculus III. A continuation of MATH 1338 including parametric equations, polar coordinates, partial differentiation, multiple integrals and vector analysis. *Prerequisite:* A grade of *C*- or higher in MATH 1338.

2343. Elementary Differential Equations. First order equations, linear equations, Laplace transforms and phase plane. *Prerequisite:* A grade of *C*- or higher in MATH 1338.

3308. Introduction to Discrete Mathematics. An introduction to logic, set theory, graph theory, recurrence relations and combinatorics. Mathematical foundations and applications of these subjects are presented. Credit not allowed for both CSE 2353 and MATH 3308. *Prerequisite:* A grade of *C*- or higher in MATH 1338.

3315 (CSE 3365). Introduction to Scientific Computing. An elementary survey course that includes techniques for root-finding, interpolation, functional approximation, linear equations and numerical integration. Special attention is given to MATLAB programming, algorithm implementations and library codes. *Prerequisites:* A grade of *C*- or higher in MATH 1338. *Corequisite:* CSE 1340 or 1341; students registering for this course must also register for an associated computer laboratory.

3334. Mathematical Modeling and Applications. Discussion of modeling principles such as conservation laws, dimensional analysis and scale, model validation, and the continuum hypothesis. Applications may include vibrations, traffic flow, population dynamics and optimization. *Prerequisite:* A grade of *C*- or higher in MATH 2343.

3337. Advanced Mathematics for Science and Engineering. Elements of vector integral calculus, Fourier series and boundary-value problems in partial differential equations. No credit given if taken after MATH 5334. *Prerequisites:* Grades of *C*- or higher in MATH 2339 and 2343.

3353. Introduction to Linear Algebra. Matrices and linear equations; Gaussian elimination; determinants; rank; geometrical notions; eigenvalue problems; and coordinate transformations, norms, inner products, orthogonal projections, Gram-Schmidt and least squares. No credit given if taken after MATH 5353. *Prerequisite:* A grade of *C*- or higher in MATH 1338.

4300. Independent Study in Math. Independent study of a selected topic in mathematics. *Prerequisite:* By arrangement with faculty sponsor and with departmental approval.

4335. Mathematical Biology. Introduction of mathematical models of biological systems. Population dynamics, infectious diseases, population genetics, and molecular and cellular biology. *Prerequisites:* Grades of *C*- or higher in MATH 2343 and 3353.

4338. Analysis. Sequences and series of real numbers and functions, and properties of continuous functions, differentiation and integration, with some attention paid to higher dimensions. *Prerequisite:* A grade of *C*- or higher in MATH 2339.

4351. Theory of Numbers. Classical number theory, including divisibility, congruencies, quadratic reciprocity, Diophantine equations and number theoretic functions. *Prerequisite:* A grade of *C*- or higher in MATH 3308 or 3353.

4355. Groups and Rings. Basic properties of groups, rings and fields, homomorphisms, normal subgroups, integral domains, ideals, algebraic extension fields, and geometric constructions. *Prerequisite:* A grade of *C*- or higher in MATH 3308 or 3353.

4381. Introduction to General Topology. Elementary topology of the line and plane, metric spaces, and general topological spaces: continuity of mappings, connectedness, compactness, completeness and fixed-point theorems. *Prerequisites:* Grades of *C*- or higher in MATH 3308 and 3353, or instructor's permission.

5315. Introduction to Numerical Analysis. Numerical solution of linear and nonlinear equations, interpolation and approximation of functions, numerical integration, floating point arithmetic, and the numerical solution of initial value problems in ordinary differential equations. Student use of the computer is emphasized. *Prerequisites:* Grades of *C*- or higher

in MATH 3315/CSE 3365 and MATH 2343; a programming course (e.g., C, FORTRAN or MATLAB).

5316. Introduction to Matrix Computation. The efficient solution of dense and sparse linear systems, least squares problems, and eigenvalue problems. Elementary and orthogonal matrix transformations provide a unified treatment. Programming will be in MATLAB, with a focus on algorithms. *Prerequisites:* Grades of *C-* or higher in MATH 3353; MATH 3315/CSE 3365.

5331. Functions of a Complex Variable. Complex numbers, analytic functions, mapping by elementary functions and complex integration. Cauchy-Goursat theorem and Cauchy integral formulas. Taylor and Laurent series, residues and evaluation of improper integrals. Applications of conformal mapping and analytic functions. *Prerequisite:* A grade of *C-* or higher in MATH 3337.

5332. Wavelet Transforms. A mathematical introduction to sampling, data compression, multiresolution analysis, Fourier analysis and wavelet theory, including biorthogonal wavelets and spline wavelets. *Prerequisites:* Grades of *C-* or higher in MATH 3337, 3353 and 3315/CSE 3365.

5334. Introduction to Partial Differential Equations. Elementary partial differential equations of applied mathematics: heat, wave and Laplace's equations. Topics include physical derivations, separation of variables, Fourier series, Sturm-Liouville eigenvalue problems, Bessel functions and Fourier transforms. *Prerequisite:* A grade of *C-* or higher in MATH 3337.

5353. Linear Algebra. Spectral theory of Hermitian matrices, Jordan normal form, Perron-Frobenius theory and convexity. Applications include image compression, Internet page rank methods, optimization and linear programming. *Prerequisite:* A grade of *C-* or higher in MATH 3353.

MEDIEVAL STUDIES

www.smu.edu/medievalstudies

Associate Professor Bonnie Wheeler, **Director**

Ranging from the fourth century A.D. to 1485, from Celtic Britain to Visigothic and Islamic Spain, Byzantium to Persia and the Caliphate, from script to print, from feast to fast, from fine arts to liberal arts, from Augustine to Saladin and beyond, this program offers an intense and condensed liberal education. Studies reveal how the historical shapes, institutional structures, literary visions and artistic forms that emerged from the Middle Ages have colored our concepts of God, society, self, love, individualism and success.

The Medieval Studies Program affords the student an opportunity for a "classically" liberal education within a broad subset of "Western" (Celtic, Franconic, Italic, Germanic, Visigothic) and "non-Western" (Byzantine, Islamic, Persian) contexts. It is appropriate for preprofessional training in multiple fields, ranging from business to religious studies and from biology to music theory and foreign languages and literatures. It can also lead to graduate work in medieval studies or (more usually) in such disciplines as literature, history and art/music history.

The Dallas Medieval Consortium makes it possible for students at SMU, the University of Dallas and the University of Texas-Dallas to enroll in selected medieval studies courses on the other campuses. Through the consortium, SMU students can elect no more than a total of 15 hours in medieval subject courses at any other consortium university.

Requirements for the B.A. Degree. Medieval studies is an interdisciplinary major of 30 hours in medieval subjects, and Latin language and literature, distributed over at least three broad subject areas in medieval studies: 1) history, 2) literature, and 3) music and visual arts (art/music history), with no fewer than six hours in each area. Latin language and literature courses after the second year may, with

the approval of the director, count toward hours for the medieval studies major. Students are encouraged to take courses in philosophy, religious studies and church history, as they are available. Individual student programs are approved by the director of Medieval Studies and a committee of two other members of the SMU Medieval Studies faculty.

Distinction in Medieval Studies. The major offers graduation with distinction to select student majors of high academic achievement. Interested students with a minimum 3.0 overall GPA and a 3.5 GPA in the major may consult with the director of the Medieval Studies Program for admission to the distinction track. If the director determines that the student has satisfied the requirements, the student may then request a faculty member to direct his/her distinction paper. The distinction paper must be a substantial piece of independent and original research. The research will be presented and evaluated by a distinction committee. Upon positive recommendation from this committee, the student will be awarded graduation with distinction.

Criteria for graduating with departmental distinction include the following:

1. A minimum 3.0 overall GPA at graduation.
2. A minimum 3.5 average in courses taken for the medieval studies major.
3. Preparation of a distinction thesis under the supervision of a faculty member while enrolled in MDVL 5399. MDVL 5399 will be taken in addition to all other requirements for the major. The faculty adviser's grade for the thesis must be *A-* or higher.
4. A passing grade on an oral examination conducted by a faculty distinction committee, which reviews the candidate's thesis. The distinction committee includes the faculty adviser, the director of Medieval Studies and one additional faculty member selected by the faculty adviser in consultation with the student.

Requirements for the Minor. A student must complete 15 hours from the courses listed, including at least three interdisciplinary and nine advanced hours. No more than six hours at the introductory (1000 or 2000) level may be counted; some of the MDVL and CF (Cultural Formations) courses listed below are also interdisciplinary. Other courses may satisfy the interdisciplinary component. Individual student programs are approved by the director of Medieval Studies.

As a model, the following is a typical Medieval Studies Program major sequence for SMU students:

SOPHOMORE YEAR

Fall term:

MDVL 3351 (CF 3351) The Pilgrimage: Images of Medieval Culture
LATN 1401 Beginning Latin

Spring term:

ENGL 3320 Topics in Medieval Literature
LATN 1402 Beginning Latin

JUNIOR YEAR

Fall term:

ARHS 3320 Medieval Art*
LATN 2311 Second-Year Latin
HIST 3350 Life in the Medieval World, A.D. 306–1095*

Spring term:

MDVL 3329 (ENGL 3329, CF 3302) The World of King Arthur*
HIST 3351 Life in the Medieval World, A.D. 1095–1350*
LATN 2312 Second-Year Latin

SENIOR YEAR

Fall term:

HIST 4325 Islam to A.D. 1453*
ARHS 3392 Islamic Art and Architecture: The Creation of a New Art*
LATN 3324 Advanced Latin Grammar and Composition*

Spring term:

ARHS 3325 Art of the Crusades*
ENGL 4323 Chaucer
HIST 3352 The Age of the Crusades*

** Credit toward medieval studies major*

Many courses are offered each year; with few exceptions, the remainder are available at least every other year. Consult with the director about offerings and frequency.

Medieval Studies

ARHS 1315 Medieval Messages
ARHS 3320 Medieval Art
ARHS 3321 Age of the Crusades
ARHS 3322 Art and the Italian Commune
ARHS 3323 Romanesque Art and Architecture
ARHS 3324 Art and Cultures of Medieval Spain
ARHS 3325 The Gothic Cathedral
ARHS 3328 Byzantine Art
ARHS 3329 Paris Art and Architecture I (SMU-in-Paris)
ARHS 3392 (CFA 3313) Islamic Art and Architecture
ARHS 3399 Medieval Jewish-Christian Dialogue in Art and Text
ARHS 4320 Seminar in Medieval Art
ARHS 4321 Word and Image: Seminar in Early Middle Ages
ENGL 1320 Chivalry
ENGL 3320 Topics in Medieval Literature
ENGL 3371 (HIST 3357, CF 3363) Joan of Arc in History, Literature and Film
ENGL 3389 Directed Studies (when applicable)
ENGL 4320 Medieval Writers
ENGL 4323 Chaucer
FL 3365 Special Topics: French Literature in Translation
FL 3366 Special Topics: French Literature in Translation (when applicable)
FL 3391 Special Topics: Italian Literature in Translation (when applicable)
FL 3392 Special Topics: Italian Literature in Translation (when applicable)
FL 3393 Dante's Poetic Vision
FREN 5320 Literary Periods (when applicable)
FREN 5321 Literary Periods (when applicable)
FREN 5334 Genre Studies (when applicable)
FREN 5335 Genre Studies (when applicable)
HIST 2321 Philosophical and Religious Thought in the Medieval West
HIST 3332 Ancient and Medieval France
HIST 3344 (CF 3394) The Oxford Landscape: From the Stone Age to the Tudors (SMU-in-Oxford)
HIST 3345 (CF 3345) England in Medieval and Early Modern Times
HIST 3350 Life in the Medieval World, A.D. 306–1095
HIST 3351 Life in the Medieval World, A.D. 1095–1350
HIST 3352 Age of the Crusades
HIST 3357 (ENGL 3371, CF 3363) Joan of Arc: History, Literature and Film
HIST 4320 Medieval Europe I

HIST 4321 Medieval Europe II
HIST 4322 Constitutional and Legal History of Medieval England
HIST 4323 History of Ireland
HIST 4324 Medieval Spirituality
HIST 4325 Islam to A.D. 1453
HIST 4326 Anglo-Saxon England to A.D. 1160
HIST 4380 History of Spain to 1492
HIST 4384 Early and Medieval England From the Beginning to 1485
HIST 5364 The City of God: Utopias in the Christian Tradition
HIST 5378 Medieval Renaissances
HIST 5392 Seminar in European History Autobiographical Tradition (when applicable)
LATN 3324 Advanced Latin Grammar and Composition
LATN 3335 Medieval Latin
MDVL 3321 (CF 3321) The Birth of the Individual
MDVL 3323 Tales of Wales
MDVL 3327 The Unicorn: Understanding Varieties of the Truth in the Middle Ages
MDVL 3329 (ENGL 3329, CF 3302) The World of King Arthur
MDVL 3351 (CF 3351) The Pilgrimage: Images of Medieval Culture
MDVL 3352 (CF 3352) Ideas and Ideals of Gender in the Middle Ages
MDVL 3353 (CF 3353) Medieval Ideas
MDVL 3398 Directed Studies
MDVL 3399 Directed Studies
MDVL 4371 Special Topics
MDVL 5301 Independent Studies
MDVL 5302 Independent Studies
MDVL 5398 Independent Studies
MDVL 5399 Independent Studies
MUHI 3301 Survey of Music History I
MUHI 4301 Research Project in Music History (when applicable)
MUHI 4392 Directed Studies in Music History: The Middle Ages
MUHI 6309 Seminar in Medieval and Renaissance Sources and Styles
PERE 3175 Collegium Musicum
PHIL 3351 History of Western Philosophy (Ancient)
PLSC 4361 Political Regimes: Understandings of Rome
PLSC 4362 Medieval Political Philosophy
RELI 3326 Introduction to the New Testament
RELI 3349 Early Christianity
SPAN 5310 Spanish Literature Before 1700

The Courses (MDVL)

3321. The Birth of the Individual. Examines several basic notions pertaining to selfhood, including consciousness, cognition, motivation, personal identity and decision, as found in medieval texts.

3323. Tales of Wales. Survey of native Welsh literature (in translation) from the sixth to the 20th century. Primary focus is on medieval and Arthurian texts and their influence on the British and European literary imagination.

3327. The Unicorn: Understanding Varieties of the Truth in the Middle Ages. Investigates the question of how history and fiction were perceived in the Middle Ages.

3329. The World of King Arthur. Investigates Britain's greatest native hero and one of the world's most compelling story stocks: the legend of King Arthur and the Round Table, and the early Arthurian materials and the later romance, epic and artistic traditions.

3351. The Pilgrimage: Images of Medieval Culture. An exploration of the medieval world through one of its own literal and metaphorical images, moving from Jerusalem to the empire of New Rome, to Rome itself and across Europe on the pilgrimage roads of the Middle Ages.

3352. Ideas and Ideals of Gender in the Middle Ages. Focuses on the status of women in the Middle Ages and the impact of ideas regarding the feminine on the development of (mostly) Western thought.

3353. Medieval Ideas. Presents some of the classic achievements of the medieval mind. While the main focus will be on Medieval Europe and the adjacent Muslim world, wherever possible students' attention will be drawn to developments in other cultures.

3398, 3399. Directed Study.

5301, 5302, 5398, 5399. Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

NATURAL SCIENCES

Professor Christine Buchanan, **Director**

A minor in the natural sciences offers students a systematic exposure to biology and chemistry. It is particularly suitable for engineering majors who are interested in medicine, dentistry or other biomedical careers. This interdisciplinary minor may not be selected by students majoring or minoring in the biological sciences, biochemistry or chemistry. Each advanced course must be taken in residence.

Required Courses

BIOL 1401, 1402 Introductory Biology
BIOL 3350 Cell Biology
CHEM 1303, 1113, 1304, 1114 General Chemistry
CHEM 3371, 3117, 3372, 3118 Organic Chemistry
Select one of the following:
BIOL 3306 Physiology (note that BIOL 3350 is a prerequisite) *or* **BIOL 3304** Genetics

PHILOSOPHY

www.smu.edu/philosophy
Associate Professor Steven Sverdlik, **Department Chair**

Professors: Eric Barnes, Doug Ehring. **Associate Professors:** Robert Howell, Steven Sverdlik, Brad Thompson. **Assistant Professors:** Philippe Chuard, Justin Fisher, Soraya Gollop, Matthew Lockard, Luke Robinson. **Lecturers:** Ken Daley, Giovanni Mion, Nenad Popovic. **Adjunct Professors:** Scott Bartlett, Stephen Hiltz, Jean Kazez, James Lamb.

Requirements for the B.A. Degree. At least 30 term hours in the department, including at least 21 term hours of advanced work (courses 3000 and above). The 30 hours must include PHIL 1301, 3351, 3352 and at least one course from the sequence PHIL 3310–3319. At least 12 hours of a foreign language are strongly recommended.

The Departmental Distinction Program. Departmental distinction is awarded to philosophy majors graduating with at least a 3.5 GPA in philosophy and who successfully complete a writing project under the guidance of a faculty member.

Requirements for the Minor in Philosophy. Students majoring in other departments may obtain a minor in philosophy. The minor will consist of 15 hours of work in the department. No more than six hours may be from 1000-level courses, and at least three hours must be chosen from PHIL 3351 or 3352. It is recommended that each student minoring in philosophy take one of the department's general introductory courses.

Requirements for the Minor in Ethics. Students majoring in departments other than the Philosophy Department may obtain a minor in ethics. The minor consists of at least 15 hours and must include PHIL 1305 or 1306; one of PHIL 1316, 1317 or 1318; and three from the sequence PHIL 3371–3381.

The Courses (PHIL)

1300. An Introduction to Practical Reasoning. Learning to analyze, evaluate and present information in order to better assess one's own beliefs and to persuade others more effectively.

1301. Elementary Logic. An introductory course in symbolic logic. Logic provides a means for determining whether the purported conclusion of an argument really does follow from the premises. In symbolic logic, mechanical procedures are developed for determining whether a given argument is valid. The techniques and skills acquired through logic have important applications not only within other academic areas such as the sciences and humanities but also within various professional areas such as law.

1305. Introduction to Philosophy. A general introduction to the central questions of philosophy. Topics include the theory of knowledge, philosophy of religion, metaphysics, philosophy of mind, ethics and political philosophy. Typical questions might include: Can we know the world outside our minds? Is it rational to believe in a God who allows evil to exist? Do the laws of physics allow for human freedom? Is morality more than a matter of opinion? Can there be unequal wealth in a just society? Readings will include classical authors such as Plato, Descartes, Locke, Hume and Mill, as well as contemporary philosophers. The focus of the course will be on arguments for and against proposed solutions to key problems of philosophy.

1306. Introduction to Philosophy: Minds, Machines and Persons. A focused introduction to the central questions of philosophy, with an emphasis on the mind and the self. Typical questions might include: Does the soul exist? Is the mind the same thing as the brain? Can animals feel pain? Can they think? Can a computer think? Might the mind be a computer? What is consciousness? Can we understand experiences radically different from our own? What is the self? Can we survive the death of our body? The focus of the course will be on arguments for and against proposed solutions to philosophical problems concerning mind, machines and persons.

1316. Introduction to Ethics. An introduction to philosophical ethics focusing on questions in ethical theory. Topics vary, but the following are representative: Is morality merely conventional – and hence historically and culturally relative – or is there an objective morality? If there is an objective morality, what is its content? And what is its basis: reason, human nature or divine command? Why be moral? If the demands of morality conflict with our own self-interest, why should we comply with them? And what exactly is in our own self-interest: in what does human happiness or well-being consist? We will read, discuss and write about philosophical arguments for and against proposed answers to questions like these.

1317. Business Ethics. A discussion of the moral and political issues surrounding a free-enterprise system. Students will be introduced to basic moral theory. Further topics will include distributive (or economic) justice; the moral preferability of capitalism and socialism; and selected concrete moral issues such as truth in advertising, worker safety and affirmative action.

1318. Contemporary Moral Problems. An introduction to philosophical ethics focusing on questions in applied ethics. Students will explore ethical theories, philosophical methods and their application to some of the most controversial and pressing issues confronting contemporary society. Topics vary, but the following are representative: abortion, animal rights, affirmative action, capital punishment, economic justice, euthanasia, sexuality, war and terrorism, and world hunger. Class discussion is an important component of the course, as is reading and writing argumentative essays about these issues.

3301. Intermediate Logic. Students are introduced to the formal theory of the logical systems they have already learned to use: namely, sentential logic and predicate logic. Students will learn to prove the completeness and soundness of both of these systems. In addition, they may also learn some simple nonstandard logical systems, such as modal, epistemic or deontic logic, if time permits. *Prerequisite:* PHIL 1301 or its equivalent.

3302 (RELI 3302). Problems in the Philosophy of Religion. The philosophy of religion, considering such problems as religious experience, human freedom, good and evil, belief in God, and immortality.

3305. Philosophy and Gender. A consideration of whether or not there are differences between the sexes; whether or not Western science, philosophy and ethics have been dominated by "male thinking;" and current issues such as pornography, censorship, rape, reproductive technologies, etc. Writings by feminist philosophers as well as their critics will be examined.

3310. Advanced Topics in Philosophy. *(May be repeated for credit.)*

3311. Twentieth-Century Philosophical Analysis. An examination of the method of philosophical analysis as practiced by such 20th-century philosophers as Moore, Russell, Wittgenstein, Quine, Austin and others.

3312. Introduction to the Philosophy of Language. A systematic treatment of such topics as the nature of linguistic reference, meaning, synonymity, truth, vagueness and metaphor. The course will also examine issues relating to the goals and methodology of linguistics, such as the status of semantic descriptions, and the "nature versus nurture" controversy in language-acquisition theories.

3313. Epistemology. A systematic treatment of such topics as skepticism, analyses of factual knowledge, theories of epistemic justification, foundational versus coherence theories of knowledge, and the relationship between psychology and a philosophical account of knowledge.

3314. Metaphysics. A study to acquaint the student with traditional metaphysical issues such as the problem of universals, the existence of other minds, continuants, the mind-body problem and the existence of God.

3315. Philosophy of Mind. A systematic treatment of the nature of consciousness, self and person.

3316. Minds, Brains, and Robotics. Topics may include neural networks, artificial intelligence, perception and action, consciousness, robotics, dynamical systems, embodied cognition, game theory, and the evolution of cognition. *Prerequisites:* Two courses in cognitive-science-related fields (philosophy, computer science, engineering, psychology, linguistics, biology or anthropology).

3333. Topics in Philosophy. *(May be repeated for credit.)*

3351. History of Western Philosophy (Ancient). A study of the major philosophers from Thales to Plotinus, including Plato and Aristotle.

3352. History of Western Philosophy (Modern). This is a survey course in the history of modern philosophy. The modern period as we are considering it begins with Descartes; includes Leibniz, Spinoza, Locke and Hume; and ends with Kant. Many seminal writings on central areas of philosophy occurred in this period, and this course provides an introduction to, and background for, these areas. We will be examining key writings from major figures on such issues as: rationalism and empiricism, the nature of external reality and our knowledge of it, the existence and nature of God, the relation between mind and body, causation, induction, rationality and rational action, and the nature of morality and moral action. This course satisfies one part of the history requirement for philosophy majors and may be used to satisfy the history requirement for philosophy minors.

3362 (CF 3341). Creativity, Discovery and Science. This course considers central issues in the history and philosophy of science with a special emphasis on the nature of creativity and discovery in scientific thought. General questions are: what is science, and what is the nature of scientific method? What is the nature of evidence and explanation in science? The course will address in some detail the question of how new ideas – such as theories and problem solutions – are produced and assessed in scientific thinking. Is creativity essentially a random or blind process, or is it rule-governed in some way? What is the nature of a scientific discovery? This course will combine literature in the history and philosophy of science together with psychological literature on the nature of creativity to answer these and other questions. No previous coursework in science is required, but students with some science background will be well equipped to appreciate the relevant issues.

3363 (CF 3308). Aesthetic Experience and Judgment. A good deal of attention is devoted to these questions: What is beauty? Are there any standards or rules concerning what is beautiful? What is art? Why is art an important part of human culture? The course will also consider the role of emotion in art, the problem of correct interpretation and the nature of tragedy.

3364. Philosophy of Biology. A survey of topics including evolution versus creationism, fitness, units of selection, adaptationism, biological taxonomy, evolution in humans, cultural evolution and niche construction. *Prerequisite:* A background in philosophy or biology is strongly encouraged.

3366. Philosophy in Literature. A nontechnical introduction to philosophy by an examination of traditional philosophical problems embodied in great works of fiction.

3370. Nineteenth-Century Philosophy. A detailed study of selected major thinkers from the 19th century, such as Kant, Hegel, Kierkegaard, Nietzsche, Schoepenhauer, Fichte, Feuerbach and Marx.

3371 (CF 3342). Social and Political Philosophy. This course will examine some of the basic questions in these fields, and the most important answers that have been given to them. Topics may vary, but typical questions include the following: What forms of government are most reasonable and morally defensible? Are citizens in a modern state normally obligated to obey the law? What is justice, and how might it be embodied in a system of government? Are there such things as "natural rights" and how do we know about them? What is the basis for saying that we have rights to freedom of speech and religion? When, if ever, is it legitimate for a state to go to war? These questions have been asked since antiquity, and we will be looking at the important answers that have been given to them since then.

3373. Punishment and Responsibility. By what right does society punish some people? What is the correct amount of punishment? Who ought to be punished? Various philosophical responses to these questions are examined. Other topics include the morality of capital punishment, excuse and justification, the morality of self defense, and the justifiability of punishing "self-regarding" acts such as drug use.

3374 (CF 3307). Philosophy of Law. An examination of central questions in philosophy of law. Topics vary, but the following are representative: What is law? What is the relationship between law and morality? To what extent may or must judges make value judgments in deciding what the law is? To what extent can or should "legislative intent" or "original meaning" constrain judicial interpretation of constitutional provisions? Whom should we punish, why should we punish them and how much should we punish them?

3375. Topics in Moral Philosophy. A topics offering that seeks to take advantage of the wide variety of issues that can be fruitfully explored in a course on moral philosophy. (May be repeated for credit.)

3376. Bioethics. An examination of ethical questions arising within medical practice, medical research, and the life sciences.

3377 (CFA 3377). Animal Rights. An examination of the moral status of nonhuman animals, and its implications for the common use of animals as food and experimental subjects for humans.

3379. Environmental Ethics. A course exploring our ethical obligations concerning the natural world. Topical issues like climate change, endangered species, recycling and the population explosion are covered from a variety of philosophical perspectives.

3380. Ethical Theory. An examination of the more fundamental – and more abstract – questions in philosophical ethics. Topics vary, but the following are representative: What is the "good life": in what does human happiness or well-being consist? What is truly worth valuing: are pleasure, knowledge and virtue valuable in themselves? What are the basic principles that determine or govern our moral rights and obligations? Are moral judgments descriptions of some features of the world, or are they merely expressions of approval and disapproval? If they are descriptions of the world, what features of it do they describe? How do we know whether an action is morally right or wrong? We will explore questions like these through a close and critical examination of classical and contemporary works in philosophical ethics.

3382. Twentieth-Century European Philosophy. An examination of some methods and principles of European philosophies in the 20th century. Philosophical schools studied include the following: phenomenology, existentialism, neo-Kantianism, life-philosophy, hermeneutics and neo-Marxist critical theory.

3383. American Philosophy. Historical development and contemporary themes in American philosophy. Varying emphasis may be placed on trends (e.g., pragmatism), historical figures (e.g., Dewey), or influential contemporary figures (e.g., Quine).

4381. Philosophy in the Iber-American World. A survey of Latin American philosophy as it relates to the social and cultural development of Latin America. (SMU-in-Madrid only)

4393, 4394. Independent Study and Research. Special topics to be selected by the student in consultation with the department. *Prerequisites:* Senior standing and departmental approval.

5310. Phenomenology. An explication of the main features, concepts and methods of phenomenology, and its relation to the history and problems of philosophy and other disciplines. *Prerequisite:* PHIL 3352 or permission of instructor.

6311, 6312. Philosophical Studies. Independent work on special topics.

PHYSICS

www.smu.edu/physics

Professor Fred Olness, **Department Chair**

Professors: Fred Olness, Ryszard Stroynowski. **Associate Professors:** Thomas Coan, Kent Hornbostel, Robert Kehoe, Roberto Vega, Jingbo Ye. **Assistant Professors:** Jodi Cooley-Sekula, Pavel Nadolsky, Stephen Sekula. **Senior Lecturer:** Randall Scalise. **Lecturer:** Simon Dalley. **Adjunct Lecturers:** John Cotton, Cas Milner. **Research Professors:** Marc Christensen, Gary Evans, Peggy Gui, Tiankuan Liu. ***Emeritus*** **Professors:** Jeff Chalk, George Crawford, Vigdor Teplitz.

The Physics Department offers a program consisting of course studies in broad areas of classical and modern physics, and research studies in both experimental and theoretical physics.

The research activities of the faculty are focused primarily in high energy, elementary particle physics and related fields. The advanced classes are small, so there is ample opportunity for students to work closely with Physics Department faculty, particularly in the advanced laboratories where students become familiar with state-of-the-art equipment. Undergraduate physics majors are strongly encouraged to participate in research activities. A majority of majors go on to pursue advanced degrees upon graduation from SMU.

B.S. Degree. This degree program is designed for students who plan careers in physics in industry, laboratories or academia. A candidate for the B.S. degree must complete a minimum of 40 hours in physics, including PHYS 1105, 1106, 1303, 1304 (or 1307 and 1308), 3305, 3340, 3344, 3374, 4211, 4321, 4392, 5382 and 5383. (PHYS 3345 may be substituted for 4321.) Additional courses may be chosen from a variety of physics electives or in related fields with departmental permission. A candidate for the B.S. degree must also complete 15 hours of courses in mathematics, including MATH 1337, 1338, 2339, 2343 and one advanced mathematics course. STAT 4340 also counts as an advanced mathematics elective. Finally, degree candidates must complete a minimum of three hours in computer science and engineering by completing CSE 1341 or 2341. Students planning to pursue graduate studies are encouraged to complete more than the minimum 40 credit hours in physics and 15 credit hours in mathematics.

B.A. Degree. This degree program is appropriate for students who wish to combine a physics curriculum with a broad liberal arts program with the aim of pursuing careers in medicine, teaching, business or government. A candidate for the B.A. degree must complete a minimum of 30 hours in physics, including PHYS 1105,

1106, 1303, 1304 (or 1307 and 1308), 3305, 3344, 4211, 4392 and 5382. Additional courses may be chosen from the available physics electives or in related fields with departmental permission. Additionally, a candidate for the B.A. degree must complete 15 hours in mathematics, including MATH 1337, 1338, 2339, 2343 and one advanced mathematics course.

Minor in Physics. A minor in physics is particularly appropriate for majors in the natural sciences, including premed, mathematics and engineering. The departmental requirement for a minor in physics is 17 hours in physics, including PHYS 1105, 1106, 1303, 1304 (or 1307 and 1308), and nine hours of advanced coursework.

The Departmental Distinction Program. A physics major achieving a B.S. degree may graduate "with departmental distinction" by successfully completing a special program of study in addition to the requirements stated above, while maintaining a minimum GPA of 3.5. The special program consists of independent reading, research and senior thesis under the direction of a departmental faculty member. The student must apply to the department for this designation during his or her junior year. The student will enroll in PHYS 4375 or 4390 during the program, and a senior thesis is to be written and presented to the faculty.

Simultaneous Degree Programs. It is also possible to earn simultaneously a B.S. degree in physics from Dedman College and a degree in engineering from the Lyle School of Engineering. The undergraduate adviser of the Department of Physics should be consulted for detailed information on the simultaneous degree programs.

Bachelor of Science in Electrical Engineering and Bachelor of Science in Physics

The Electrical Engineering Department and the Physics Department offer an integrated curriculum that enables a student to obtain both a B.S. degree in electrical engineering and a B.S. degree with a major in physics.

Curriculum Notes

The minimum requirements for the dual degrees of B.S. in electrical engineering and B.S. in physics are as follows:

Curriculum Requirements		*Term Credit Hours*
College Requirements:	ENGL 1301, 1302; Perspectives courses, including ECO 1311; and Cultural Formations and Wellness courses	23
Mathematics:	MATH 1337, 1338, 2339, 2343; and a 3-hour elective course at the 3000 level or above	15
Science:	CHEM 1303; PHYS 1105, 1303, 1304, 3305, 3344, 4211, 4321, 5337, 5382, 5383; and PHYS 3374 or ME 3341	33
Computer Science:	CSE 1341	3
Engineering Leadership:	Two of EMIS 3308, 3309; CEE 3302; or CSE 4360	6
Core Electrical Engineering:	EE 1382, 2122, 2170, 2181, 2322, 2350, 2370, 2381, 3360	21
Junior Electrical:	EE 3122, 3181, 3322, 3381; EE 3330 or PHYS 4392; and EE 3311 or 3372	14
Advanced Electrical Engineering Electives		12
Senior Design Sequence:	EE 4311 and 4312	6
	Minimum total hours required	**133**

Bachelor of Science in Mechanical Engineering and Bachelor of Science in Physics

The Mechanical Engineering Department and the Physics Department offer a curriculum that enables a student to obtain both a B.S. degree in mechanical engineering and a B.S. degree with a major in physics.

Curriculum Notes

The minimum requirements for the dual degrees of B.S. in mechanical engineering and B.S. in physics are as follows:

Curriculum Requirements		*Term Credit Hours*
General Education:	ENGL 1301, 1302; and Perspectives and Cultural Formation courses	21
Mathematics:	MATH 1337, 1338, 2339, 2343; and STAT 4340	15
Sciences:	PHYS 1303, 1304, 3305, 3344, 3374, 4211, 4321, 4392, 5382, 5383; two advanced physics electives; and CHEM 1303	38
Mechanical Engineering:	ME 1202, 1102, 1305, 2310, 2331, 2131, 2340, 2140, 2342, 2142, 3332, 3132, 3340, 3370, 4338, 4360, 4160, 4370, 4380, 4381 and 5322	50
Leadership Elective:	Select one from EMIS 3308, 3309; CEE 3302; or CSE 4360	3
Wellness I and II		2
	Minimum total hours required	**129**

Any deviation from the ME and/or PHYS curricula requires approval of a petition submitted by the student to the appropriate faculty prior to the beginning of the term during which the student expects to complete the requirements for graduation.

The Courses (PHYS)

1105. General Physics Laboratory. One 3-hour laboratory period per week. Taken with PHYS 1303, 1307 if 8 hours of credit, including laboratory, are needed.

1106. General Physics Laboratory. One 3-hour laboratory period per week. Taken with PHYS 1304, 1308 if 8 hours of credit, including laboratory, are needed. *Prerequisite:* PHYS 1105 or self-test.

1301. The Ideas of Modern Physics. Presents cosmology, relativity, quantum mechanics and particle physics in an essentially descriptive, nonmathematical framework accessible to all SMU students.

1303. Introductory Mechanics*. For science and engineering majors. Vectors kinematics, Newtonian mechanics, gravitation, rotational motion, vibrations, waves and fluids. *Prerequisite:* Concurrent registration in MATH 1337 is allowed based upon satisfactory completion of a calculus course in high school and approval of instructor.

1304. Introductory Electricity and Magnetism*. For science and engineering majors. Electricity, magnetism, electromagnetic radiation, optics and special relativity. *Prerequisite:* PHYS 1303. MATH 1338 recommended.

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* *Students with a strong high school preparation in physics may take a departmental placement examination to acquire credit for either PHYS 1303 or 1304; the placement exam must be taken during the student's first term at SMU.*

1307, 1308. General Physics. Principles and concepts of physics; applications in the life sciences. Mechanics, thermodynamics, sound, optics, electricity, magnetism and modern physics. *Prerequisite:* MATH 1337.

1311. Elements of Astronomy. A course in planetary and stellar astronomy, including laboratory and observations.

1313. Fundamentals of Physics. Contemporary concepts of physics, including Newtonian mechanics, gravitation, rotational motion, fluids, the gas laws, vibrations and waves, and sound. Intended for the nonscience major. No prior knowledge of physics is assumed.

1314. The Physical Perspective. Principles and concepts of physics, including electricity, magnetism, the nature of light, Einstein's theory of relativity, quantum theory, atomic physics and the Big Bang. Intended for the nonscience major. No prior knowledge of physics is assumed.

1320. Musical Acoustics. Covers both the acoustics (physical sound properties) and the psycho-acoustics (psychological, perceptual properties) of music. Topics include sound in general, sound of musical instruments (including voice), sound characteristics of rooms, electronic production (synthesis) and reproduction of sound. No prior knowledge of physics is assumed. While this course requires no previous formal training in music theory, it is helpful if students have a basic understanding of musical scales and notation.

1403. General Physics. Equivalent of PHYS 1303 and 1105.

1404. General Physics. Equivalent of PHYS 1304 and 1106.

1407. General Physics. Equivalent of PHYS 1307 and 1105. *Prerequisite:* MATH 1337

1408. General Physics. Equivalent of PHYS 1308 and 1106. *Prerequisite:* MATH 1337.

3305. Introduction to Modern Physics. For science and engineering majors. Special relativity. Elements of quantum physics. Structure of atoms, molecules and solids. Nuclear physics. Elementary particles. *Prerequisite:* PHYS 1304.

3310. Introduction to Relativity and the Physics of Waves. One-dimensional harmonic oscillator, coupled oscillators, longitudinal and transverse waves, sound and electromagnetic waves, interference and diffraction, Lorentz transforms and invariants, time dilation, length contraction, equivalence principle, and black holes. *Prerequisites:* PHYS 3305 (can be taken concurrently), MATH 2339, MATH 2343 (can be taken concurrently).

3320. Physics of Music. Covers the acoustics (physical sound properties) of music. Topics include sound in general, sound of musical instruments, acoustics, electronic synthesis, Fourier transforms, interference, diffraction and resonance. *Prerequisites:* PHYS 1303 and 1304 or equivalent. PHYS 3344 recommended. While this course requires no previous formal training in music theory, it is helpful if students have a basic understanding of musical scales and notation.

3333. The Scientific Method (Debunking Pseudoscience). Provides students with an understanding of the scientific method sufficient to detect pseudoscience in its many guises: paranormal phenomena, free-energy devices, alternative medicine, creationism and many others.

3340. Computational Physics. Introduction to the modeling of physical systems. Emphasis is on algorithm selection and implementation for simulating classical and quantum physics. Prior programming experience recommended.

3344. Classical Mechanics. The motion of a particle and of systems of particles, including oscillatory systems, accelerated coordinate systems, central-force motion, rigid-body dynamics, gravitation and Lagrangian mechanics. *Prerequisites:* PHYS 1303 and MATH 2339 (or taken concurrently).

3345. Advanced Mechanics. Topics in classical mechanics, including the motion of a system of particles, the two-body central-force problem, small oscillations of coupled systems, collision theory, Lagrange's and Hamilton's formulations, the vibrating string, and the special theory of relativity. *Prerequisite:* PHYS 1303.

3368. Principles of Astrophysics and Cosmology. Cosmic distance scales. Physics of stars. Expansion of the universe. Cosmic nucleosynthesis. Selected other topics as appropriate. *Prerequisite:* PHYS 3305.

3374. Thermodynamics and Statistical Mechanics. Basic concepts of thermodynamics and statistical mechanics with emphasis on quantum statistics. The laws of thermodynamics, entropy, Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics. *Prerequisites:* PHYS 3305. MATH 2343 recommended.

4112. Laboratory Physics II. Intermediate-level experimental physics. Approximately one experiment per week. One 3-hour laboratory period per week. *Prerequisites:* PHYS 1106, 3305.

4190, 4290, 4390. Special Projects in Physics. Directed study of special topics. For physics majors only. *Prerequisites:* Junior or senior classification and permission of department.

4211. Laboratory Physics I. Introduction to experimental physics. Approximately one experiment per week. One 2-hour laboratory period per week. *Prerequisites:* PHYS 1105, 1106, 3305.

4321. Methods of Theoretical Physics. Matrices, determinants, linear algebra, complex variables, inhomogeneous equations, Sturm-Liouville theory, partial differential equations, special functions, Fourier series and integral transforms, integral equations, calculus of variations, and applications. *Prerequisites:* MATH 2339, 2343.

4375. Research. For physics majors. Students will participate in physics research with a member of the faculty of the Department of Physics. *Prerequisite:* Permission of instructor.

4392. Introduction to Electromagnetic Theory. A development of electromagnetic theory from the experimental laws; Maxwell's equations for the electromagnetic field. Electrostatics, magneto statics, steady currents, boundary-value problems, and time-varying electric and magnetic fields.

For Undergraduate and Graduate Students

5337. Introduction to Solid State Physics. Crystal lattices and the reciprocal lattice. The free-electron model of metals. Crystal binding. Lattice vibrations phonons. Thermal properties of solids. Energy bands in solids.

5380. Concepts of Experimental Particle Physics. Principles of elementary particle physics and the experiments by which we learn laws obeyed by these particles, with reading of scientific papers. *Prerequisite:* PHYS 3305 or equivalent; PHYS 5382 recommended.

5382. Introduction to Quantum Mechanics. A study of the development of quantum theory, including blackbody radiation, the Bohr atom and the photoelectric effect. Wave-mechanics and matrix-mechanics approaches will be studied, as well as a brief introduction to the Dirac formalism. Solutions to the Schrödinger equation for a variety of one-dimensional problems and for the hydrogen atom are discussed. *Prerequisites:* PHYS 3305 and MATH 3353.

5383. Advanced Quantum Mechanics. Applications and approximation methods in quantum mechanics. Applications to laser physics, solid-state physics, molecular physics and scattering are included. *Prerequisite:* PHYS 5382.

5393. Electromagnetic Waves and Optics. Theory and applications of electromagnetic wave radiation, propagation and scattering. Geometrical and physical optics. Guided waves. Lasers, coherent optics, interferometry and holography. *Prerequisite:* PHYS 4392 or equivalent, or permission of instructor.

5395. Introduction to Elementary Particles. Modern theories of elementary particles, including relativistic kinematics, Feynman diagrams, quantum electrodynamics, quarks, weak interactions and gauge theories. *Prerequisite:* PHYS 5383.

POLITICAL SCIENCE

www.smu.edu/politicalscience

Professor Harold Stanley, **Department Chair**

Professors: Seyom Brown, James Hollifield, Dennis Ippolito, Calvin Jillson, Michael Lusztig, Harold Stanley, Stephen Wegren. **Associate Professors:** Bradley Carter, Joseph Kobylka, Luigi Manzetti, Dennis Simon, Matthew Wilson. **Assistant Professors:** Karisa Cloward, Hiroki Takeuchi. **Professor *Emeritus:*** James Gerhardt.

For Undergraduate Students

The department offers undergraduate courses of three types. Introductory courses (at the 1000 level) survey each of the broad fields of study in the discipline. Advanced courses (at the 3000 and 4000 levels) explore more closely defined topics within each of those fields – 3000-level courses examine relatively broad subjects; 4000-level courses examine more specific topics, but are not inherently more demanding than 3000-level courses. Introductory-level preparation or at least sophomore standing is recommended for students undertaking these advanced courses. Independent study courses (at the 4000 level) are offered to majors with sophomore or higher standing; prerequisites for these courses are stated in the course descriptions that follow. For purposes of distribution and concentration, courses are grouped in their broad fields in the listings below, as indicated by the last two digits of their course numbers:

American Government and Politics	20–39
Comparative Politics	40–59
Political Theory	60–79
International Relations	80–99

Requirements for the B.A. Degree. The B.A. degree in political science requires a total of 33 hours with two introductory courses (six hours) of choice and 27 advanced hours (3000 and above). Advanced coursework must include at least six hours in each of two distribution fields and three hours in a third.

Minors in Political Science. Four minor concentrations are offered: a general program in political science and three specifically focused programs in political thought, comparative and international politics, and American politics. Each concentration requires 18 hours of political science courses, including three or six hours at the introductory level and 12 or 15 advanced hours.

Departmental Distinction. The department offers graduation with distinction to select majors of high academic achievement. Interested students may consult with an appropriate faculty member and apply to the director of Undergraduate Studies for admission to the distinction track. Eligible students must have completed two introductory departmental courses and 24 hours of departmental credit before applying for candidacy.

Criteria for graduating with departmental distinction include the following:

1. A minimum 3.0 overall GPA at graduation.
2. A minimum 3.5 average in courses taken for the political science major.
3. Preparation for a departmental distinction thesis under the supervision of a faculty thesis adviser. The faculty adviser's grade for the thesis must be *A-* or higher. This work will be accomplished by taking PLSC 4307 and will be in addition to all other requirements for the major.
4. Passing with distinction an oral examination of at least one hour, conducted by a faculty distinction examination committee, which reviews the candidate thesis and major curriculum.
5. A minimum 3.5 average in at least two advanced courses related to the topic of the thesis; one of these may, but need not, be a course taken outside the requirements of the political science major.

Students advanced to the distinction track must write a substantial piece of independent and original research (PLSC 4307) and present it to a distinction committee composed of faculty selected by the distinction adviser in consultation with the student. Upon positive recommendation of this committee, the department will award the student graduation with distinction.

Eligible students will be admitted to the distinction track upon recommendation of the director of Undergraduate Studies in consultation with the faculty member who has agreed to chair the distinction committee and oversee the student's research and writing. The department does not require candidates for distinction to take PLSC 4376, but strongly advises students interested in empirical research to do so.

Notes of Importance. Students must receive at least a *C-* in all classes counting toward the major or minor.

No course may be counted more than once toward meeting departmental major or minor requirements. In unusual circumstances, a student may petition, through his or her adviser, to the department chair for exceptions to the above requirements. Only the department chair may grant such a written waiver.

The Courses (PLSC)

American Government and Politics

1320. Introduction to American Government and Politics. The organization, functions and processes of our national government, with particular attention to parties, pressure groups and other forces that influence its course. Attention will also be given to the Texas Constitution.

3320. Principles of Public Policy. Public policy is the study of the outcome of the political process. Parties, pressure groups, bureaucracies and legislative bodies create the decisions that govern domestic social policy, international economic policy and defense policy. *Prerequisites:* ECO 1311 and PLSC 1320. *Recommended:* ECO 1312 and PLSC 1340 or 1380.

3321. Congress and the Legislative Process. The powers, organization, and rules and procedures of legislatures in the United States. Emphasizes the U.S. Congress: its constitutional responsibilities, committee and staff systems, and legislative procedures in the House and Senate.

3322. The American Presidency. An evaluation of the office of president in the American political system with emphasis placed upon the functional and institutional development of the office and presidential leadership in policy making.

3323. Southern Politics. Focuses on the South, paying particular attention to partisan competition, the politics of race, redistricting and voting rights in the 11 Southern states.

3326. State Government and Politics. A comparative study of the structure, procedure and functional services of state, county and municipal governments with emphasis upon intergovernmental relations in the federal government and Texas government.

3327. Texas Politics. This course focuses on government and politics in Texas both by exploring its processes, institutions and policies, and by placing them within the broader context of the U.S. federal system.

3329. Bureaucracy and Regulatory Politics. Examines the "fourth branch" of government, including the rise of regulatory policymaking in the twentieth century, its instructions and organization, the role of administrative law, the behavior of civil servants and interest groups, and the relationship between bureaucracies and other branches of government.

3330. Law, Politics and the Supreme Court. An introduction to the uniquely political and legal role played by the Supreme Court in elaborating the scope of governmental power and in defining individual rights and liberties.

3331. Media and Politics. Examines how the media influence the American institutional governing process and citizen engagement in democratic practices such as acquisition of political knowledge and political decision-making.

3333 (PP 3310). Environmental Policy. Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

3334. Public Opinion and American Politics. Focuses upon the influence of public opinion on American politics and policy making. Topics for the course will include public opinion and democratic theory, the methods of survey research, the use of the polling "industry," and the influence of polls on politicians and policy.

3335. Judicial Process. Examines the role played by courts in the American system of government. Ranges from the generation of disputes, to the tools used by the judiciary to resolve them, to the ways judges are selected and make decisions, and to the impact of those decisions on society and government.

3336. Congress, the President and the Constitution. An examination of how constitutional interpretation, precedent and politics affect presidential and congressional powers, as well as the separation of powers with respect to war and foreign affairs, legislation and administration, and budgetary and fiscal policies.

4320. Special Studies in American Government and Politics.

4321. Basic Issues in American Democracy. An analysis of current American public policy issues within a theoretical framework. Examines the foundations of concepts and value orientations within which policy considerations are made.

4322 (CFA 3326). Latino Politics. An analysis of contexts, causes and consequences of Latino political participation. The focus is on Latinos in the Southwest with some attention to other racial and ethnic groups elsewhere in the U.S.

4323 (CFA 3334). The Politics of Change in America, 1930–2000. Focuses on American politics and society from 1930 to the present. Examines how America has changed, explains why changes occur and assesses the consequences of these changes.

4324. Political Dynamics. Use of political parties in formulating political opinions, pressure groups, propaganda, measurement of mass opinions and political leadership.

4325. Practical Electoral Politics. An exploration of techniques of political organization drawing on studies of recent campaigns and examining the political pressures that affect policy making in government.

4326. Presidential Elections. An examination of presidential nominations and elections. Topics include voter decision making, media coverage, campaign finance, delegate selection rules, the electoral college and kindred concerns.

4327. Urban Politics. Traces ideas and beliefs about the nature and purpose of local political arenas in the American experience from New England townships to modern metropolises.

4328. Seminar: American Government and Politics. An overview of the central questions in the study of American government and politics.

4329. The Politics of Economic Policy. Analysis of interactions among political beliefs, economic theories, political processes and public policies that shape and change the American political economy.

4330. Politics and Film. This course will use films as a vehicle for understanding politics, leadership and the political process in the United States. The class involves substantial reading and writing by students.

4331. Government and Business. Analysis of the roles of business in American policies and the impacts of political and governmental decisions on business activity.

4332. Politics of Litigation. An examination of the interaction between law and politics and, in particular, of the role interest groups have played in the litigation process.

4333. Policy, Politics and the Budget. Examines the federal budget's historical evolution and contemporary significance. Topics include the constitutional division of the power of the purse between the legislative and executive branches, presidential-congressional conflicts over control of budget policy, major policy issues relating to the size of the federal budget, spending and tax policy priorities, and deficit and debt problems.

4334. Politics and Legacies of the Civil Rights Movement. Examines the politics and legacies of the movement that destroyed the social system known as "Jim Crow" and removed barriers to political participation by African Americans.

4335. Constitutional Law. Examines the scope of constitutional power in the American governmental system, questions of separation of powers between the branches of the national government, and the federal relationship between the national government and state governments.

4336. Civil Liberties: First Amendment and Privacy. Examines the place and treatment of expression, religion and personal autonomy in the American Constitution and in the cases in which the Supreme Court has defined and applied the Constitution.

4337. Civil Rights. Examines changes wrought in the American system of governance by the addition of the Fourteenth Amendment, particularly its Equal Protection Clause, and the ways the Supreme Court has interpreted and applied it over time. Topics include racial discrimination, sex discrimination and equality in the political process.

4338. Criminal Process Rights. Examines the application of the principles of "ordered liberty" and the Bill of Rights to criminal process disputes. The course's concerns extend through initial police investigation, trial preparation, trial and jury concerns, and the post-trial determination of punishment.

4339. Women and the Law. The status of women in the American legal system, including an assessment of women defined as a legal category and the impact of increasing numbers of women lawyers, judges and criminals.

Comparative Politics

1340. Introduction to Comparative Politics. Analyzes and contrasts different patterns of national political development in Western, Marxist-Leninist and Third World countries. Examines political dilemmas confronting each type of system.

3340. Western European Politics. The political development of Britain, France, Germany and Italy. Topics include the emergence of parliament and parties, democratic breakdown and the rise of Fascism, modern parties and interest groups, state economic planning, corporatism, and extraparliamentary oppositions.

3341. Politics of Participation and Representation in Western Democracies. Focuses on the numerous avenues through which citizens influence politics and policy making in advanced industrial democracies. Considers the implications of formal institutional structures, such as electoral and party systems, the impact of organized groups, as well as more informal forms of participation, such as protest movements and citizen initiatives.

3342 (CF 3388). Making Democracy Work. Aims to answer the fundamental question of why democracy thrives in some nations while it struggles in others, and in many more it has not yet taken root.

3345. Governments and Politics of the Middle East. A survey of modern Middle East governments and politics. Topics include the historical, ideological, and economic and social influences on their domestic and foreign policies, analysis of emerging political forms, and modernization problems.

3346. Governments and Politics of Japan. A study of political institutions, foreign policies and international relations, and the economic and social problems of Japan.

3347. Governments and Politics of Africa. The politics of Black Africa in an international context, emphasizing the problems of race, nationalism and economic development.

3348. Governments and Politics of Latin America. The structure, functions and operations of governments in Latin American countries with emphasis on political practices and institutions.

3349. Politics of Major Latin American Countries. An introduction to the problems of political development in some of the major countries of Latin America: Argentina, Brazil, Chile and Mexico.

3352. Chinese Politics. Chinese contributions to Marxist-Leninist theory and analysis of Chinese institutions and policy making, with emphasis on recent political developments.

3355. The Political Economy of the Welfare State. Focuses on the origins, evolution and management of industrial democracy in Europe and America. Emphasizes the interconnections between political and economic challenges inherent in policy making, and the economic implications of public policy.

3358. Government and Politics of Russia. Examines attempts to reform the former Soviet Union since 1985. Analyzes, in particular, the social and political processes behind the

demise of the Soviet system. Emphasis is placed on sources for support of, as well as obstacles to, political, economic and social reform in post-communist Russia.

3359 (CFA 3359). From Communism to Democracy. The rise and fall of communist regimes and the transition to democracy in Eastern Europe and the former Soviet Union, emphasizing social, economic and political influences affecting divergent paths to democracy.

4340. Special Studies in Comparative Government and Politics.

4341 (CFA 3304). Comparative Rights and Representation. Examines the tension that exists between rights and democratic representation. Explores judicial social-policy making, individual versus collective rights, aboriginal rights and affirmative action.

4342. Why Nations Revolt. Provides an introduction to revolutions by surveying the major theories that have been developed to explain the occurrence of revolutions. Various revolutions will be examined as case studies, including the French, Russian, Nazi and Chinese revolutions. In addition, at least one peasant revolution in the Third World will be covered.

4348. Seminar: Comparative Government and Politics. An overview of the central questions in the study of comparative government and politics.

4353. Governments and Politics of East Asia. Analysis of various aspects of social change and modernization and their effects on mass and elite political behavior and political processes in selected countries of East Asia.

4354. The Third World and North-South Relations. An inquiry into problems and theories of the political economy of development and dependency in the Third World countries.

4355 (CFA 3355). Comparative Political Economy of Industrialized Democracies. Examines the nature and workings of the political economies of industrialized democracies of North America, Europe and the Pacific in comparative perspective. Recommended: Prior completion of one introductory political science and/or economics course.

4356. Latin American Political Economy. Focuses on the challenges facing public policy in the Latin American region and how to interpret that region's politics and economic frustrations. Attentive to the basic rules of the Latin American political game and the lack of agreement on them.

4358. Soviet Politics: Revolution to Revolution. A survey of Soviet political history from 1917–1991. Special attention is devoted to the way in which each Soviet leader attempted to change the political and economic system.

Political Theory

1360. Introduction to Political Theory. An introduction to political theory through an examination of classical and modern approaches to the study of politics. Addresses questions concerning how we get knowledge about politics and what we do with that knowledge.

3360. Foundations of Political Thought. Main currents of political thought in their historical settings from Plato to the 17th century, with a critical evaluation of those elements of continuing worth.

3361. Modern Political Thought. Main currents of political thought in their historical setting from the 17th century to the present.

3362. Twentieth-Century Political Thought. Analysis of the political implications of selected responses to the problems of modern mass society.

3363. American Political Thought. A historical and analytical survey of the thinkers, actors and main currents of American political thought from the founding of the first European colonies to the present day.

3365. Communism and Post-Communism. Theoretical foundations of communism and its variant forms in practice, explanations for the collapse of Eastern European communist systems, and possible futures of communism.

3370. Women and Politics. An analysis and critique of women's role in politics, theories on women's status and power, political activities, ideologies, and programs of feminists, past and present.

4360. Special Studies in Political Theory.

4361. Political Regimes: Understandings of Rome. Focuses on the various understandings of "Rome" as developed in the writings of Plutarch, St. Augustine and Machiavelli. Addresses three fundamentally different conceptions of the regime – beginning with the Roman Empire, considering the effects of the Christian order, and addressing the new modes and orders introduced by Machiavelli.

4362. Medieval Political Philosophy. Introduces students to the tradition of political philosophy represented by various thinkers of the medieval period. Through an analysis of Islamic, Jewish and Christian authors, students attempt to come to an understanding of the fundamental issues at stake in their works. The course also examines closely the alternative solutions proposed for solving what has been termed the "theological-political problem."

4363. Religion and Politics. Analysis of the relationship between religious faith and civil government in the Western tradition. Focuses on thinkers and controversies from the late Roman Empire to contemporary United States.

4368. Seminar: Political Theory and Philosophy. An overview of the central questions in the study of political theory and philosophy.

4369. Republicanism and the Good Society. Our understanding of liberal democracies owes a great deal to republican thought. This course seeks to examine the intellectual history of republicanism, its uneasy alliance with liberalism, and its various contemporary manifestations – particularly in the United States and Canada.

4371. Jurisprudence. An introduction to alternative ways of viewing the sources, functions and uses of law. Attention is given to various understandings of the concepts of justice and rights.

4376. Research Design and Data Analysis in Political Science. Focuses on the "art" and "science" of designing and conducting empirical research in political science. The topics covered include research design, measurement, data analysis and hypothesis testing.

International Relations

1380. Introduction to International Relations. A basic survey of the elements of international relations, including the nation-state system, international organizations, international law, diplomacy, foreign policy and various nonstate actors such as multinational corporations.

3351. Russia Under Putin. A study of contemporary Russia. The goal is to prepare a multifaceted assessment of the superpower that is and was Russia. How will it develop, politically, economically and militarily? The course is part of the SMU-in-Copenhagen program.

3381 (CFA 3381). Current Issues in International Politics. An interdisciplinary survey of contemporary issues and challenges in the international arena. The student will research and propose solutions taking into account the multidimensional aspects of these international challenges.

3382. International Organizations: Global and Regional. A study of the United Nations and other international agencies in their attempts to deal with the great international political problems of our times.

3383. The American Foreign Policy Process. A survey of the contemporary content and the conduct of American foreign policy.

3387 (CF 3303). Political Geography. An examination of topics in international political rivalries within the nation-state system. Major emphasis will be given to the adaptations within that system since 1850 for spatial distributions of physical terrain, populations, economic resources and activities, and political and social divisions.

3389 (CF 3389). International Political Economy. Introduces students to the study of international political economy. The expansion of trade and foreign direct investment and the increase in international migration are indicators of a new interdependence and globalization. How do nation-states respond to globalization and manage international economic relations?

3390. Negotiating International Trade. Examines the means by which countries negotiate international trade. In part, the course is theoretical, examining standard theories of trade.

In part it is empirical, with hemispheric trade as the substantive focus. Finally, in part the course is practical. Students are engaged in a computer-based simulation exercise with students from other universities.

4380. Special Studies in International Relations.

4381. National Security Policy. The historical background and development of national security policy in the United States. Emphasizes war powers and defense policy; the constitutional framework, precedents and presidential-congressional authority; and Cold War and post-Cold War national security strategies and defense policy issues.

4382. The Politics of Military Force. An examination of uses of U.S. military force as a political instrument and an attempt to judge its effectiveness as a tool of American foreign policy since the end of World War II.

4384. American-Russian Relationship. Surveys American-Russian relations since 1945. Examines the relationship during the Cold War, with emphasis on how and why the Cold War began and then investigates the reasons for the end of the Cold War. Explores the nature of the relationship in the post-Cold War era, with emphasis on common interests and issues that divide the two nations. Incorporates a negotiation simulation exercise between American and Russian negotiating teams.

4385. Inter-American Relations. A survey of the diplomatic and commercial relations between the United States and the republics of the Western hemisphere with particular attention to involvement in the Caribbean area.

4386. Issues of U.S.-East Asia Relations. Analysis of politics of trade imbalance, regional collective security, technology transfer, and other problems of bilateral and multilateral relations between the United States and East Asian countries.

4388. Seminar: International Government and Politics. An overview of the central questions in the study of international government and politics.

4391. NAFTA and Free Trade in the Americas. Exploration of the domestic politics of the three NAFTA countries leading to the North American Free Trade Agreement, the effects of the agreement, and possibilities for expanding free trade in the Americas.

4398. Nuclear Weapons and World Politics. Focuses on the nuclear rivalry between the U.S. and the USSR, and on how this rivalry has transformed the nature and conduct of world politics. Emphasis is placed on theoretical and analytical perspectives, including deterrence theory, bargaining and game theory. Attention is also given to the implications stemming from both the vertical and horizontal proliferation of nuclear weapons.

Special Undergraduate Offerings

Opportunities for independent study and research are available to majors in political science. Students must have departmental approval prior to registering for these courses. Prerequisites are stated for each independent-study course below. Such courses may not be counted toward departmental distribution requirements, and no more than two such courses may be counted toward overall major or minor requirements.

4102, 4202, 4302. Directed Readings. Students develop and execute independent reading or research projects under the guidance of a departmental faculty member, culminating in a written report. *Prerequisites:* Written approval of the instructor and the department chair, or a designate; at least sophomore standing; and appropriate introductory and advanced course preparation.

4301, 4401, 4402, 4403, 4404. Washington Term. Intensive study of national political institutions. Includes a four-hour research project (4401), a four-hour internship (4402), and an 8-hour seminar (4403 and 4404). *Prerequisites:* Two courses in political science, at least one at the upper level, that are relevant to the selected program. Available for political science, public policy or international studies majors or minors.

4304. Departmental Seminar: Scope and Methods of Political Science. An overview of the enterprise of political science. It canvasses the areas of interest to the discipline, the questions political scientists pursue, and the ways scholars have addressed these questions.

4306. Internship in Political Science. Undergraduate students who arrange for part- or full-time jobs in government, political parties, interest groups or other organizations relate these experiences to their academic curriculum through research and writing, under the guidance of a departmental faculty member. *Prerequisites:* Written approval of the instructor and the department chair, or a designate; at least sophomore standing; and appropriate introductory and advanced preparation.

4307. Departmental Distinction Thesis. Candidates for departmental distinction write a thesis under the direction of a departmental faculty member, culminating in an oral examination over the field of the thesis. *Prerequisite:* Admission to departmental honors candidacy.

4343. Nationalities and Minorities in Europe. A study of minority issues in Europe. The Balkans, the Baltics, the Basques: why are they fighting? In modern Europe, minority issues are constantly debated and acted upon, both by majorities and minorities. The course is part of the SMU-in-Copenhagen program.

4363 (CFA 3363). Religion and Politics in the Western Tradition. Analysis of the relationship between religious faith and civil government in the Western tradition. Focuses on thinkers and controversies from the late Roman Empire to contemporary United States.

5341. European Politics: The European Union. Europe is in a period of transformation, emerging as a major player on the world scene, while internally developing a novel balance between unification of countries and the rise of local identities. What are the forces that shape the new Europe? How does European policy materialize and who makes the decisions? The course is part of the SMU-in-Copenhagen program.

5383. Seminar on Regional Conflicts. A study of the problems of European security, with a particular emphasis on the issues confronting populations and policy makers after the Cold War, on the search for a new European security order, and on the emergence of new threats to security. The course is part of the SMU-in-Copenhagen program.

PSYCHOLOGY

www.smu.edu/psychology

Professor Ernest Jouriles, **Department Chair**

Professors: Alan Brown, George Holden, Ernest Jouriles, Thomas Ritz. **Associate Professors:** Robert Hampson, Renee McDonald, David Rosenfield, Jasper Smits. **Assistant Professors:** Austin Baldwin, Georita Frierson, Alicia Meuret, Amy Pinkham, Lorelei Simpson. **Lecturers:** Michael Crow, Susan Hornstein, Chris Logan. **Visiting Lecturer:** James Calvert.

Requirements for the B.A. in Psychology

	Course Hours
1. Prior to declaring a psychology major, the following 9 hours must be completed with a combined average of 2.0 or better with no individual grade less than a *C-:*	9
PSYC 1300 Introduction to Psychology	
PSYC 2301 Research Methods in Psychology	
STAT 2331 Introduction to Statistical Methods *or* **STAT 2301** Statistics for Modern Business Decisions	
2. Five courses chosen from the following:	15
PSYC 2314 Developmental Psychology	
PSYC 2319 Social Psychology	
PSYC 2351 Abnormal Psychology	
PSYC 3310 Memory and Cognition	
PSYC 3360 Health Psychology	
PSYC 3370 Personality	
PSYC 4320 Biological Psychology	
3. A total of 12 additional hours at the 3000 level or above	12
Total Hours	**36**

Practicum, individual research and independent study courses (PSYC 3099, 3199, 3299, 3399, 4395) may be taken only on a pass/fail basis. Such courses will not count toward the major.

Requirements for the Minor in Psychology (18 hours)

PSYC 1300 must be successfully completed before declaring a psychology minor. Nine hours of the 18 hours needed for the minor must be at the 3000 level or above. The minor requires three PSYC courses chosen from the following: PSYC 2301, 2314, 2319, 2351, 3310, 3360, 4320, 3370.

The student must also complete two elective courses in psychology (six hours) at the 3000 level or higher. Practicum, individual research and independent study courses (PSYC 3099, 3199, 3299, 3399, 4395) may be taken only on a pass/fail basis. Such courses will not count toward the minor.

The Courses (PSYC)

1300. Introduction to Psychology. Broad introduction to psychology as a behavioral science, with special emphasis on cognition, development, learning, social interaction, personality, and physiological and clinical psychology (psychopathology and psychotherapy).

2301. Research Methods in Psychology. Design and evaluation of psychological research with emphasis on scientific method, data collection, experimentation, control procedures, validity, reliability and report-writing skills. This is a challenging and rigorous class in research; required for psychology majors. *Prerequisite:* PSYC 1300.

2314. Developmental Psychology. A survey of the processes and variables that influence the development of the fetus, infant, child and adolescent. Emphasis is on theories and research in such areas as perceptual, cognitive, language, social/emotional and moral development.

2319. Social Psychology. Addresses the question of how individuals' thoughts, feelings and behaviors are influenced by their social environment; includes topics such as attitude change, conformity, attraction, aggression and small-group behavior.

2351. Abnormal Psychology. A study of the theories, causes, assessment, and treatment of abnormal behavior, including depression, anxiety, psychosis, personality disorders and other forms of psychopathology in adults. There is an examination of the continuum of normal and abnormal behavior with consideration of historical and cultural perspectives, ethical concerns and research methodologies in understanding psychological disorders. *Prerequisites:* PSYC 1300 and three additional psychology course hours; or instructor approval.

3099, 3199, 3299, 3399. Research Training. Supervised research experience in faculty research projects in labs, clinics or field settings. May involve library research, participant recruitment, data collection, data input and analysis. *Prerequisites:* PSYC 1300, 2301. Instructor consent required.

3310. Memory and Cognition. A survey of how information is encoded, stored and retrieved in adults. Topics may include attentional processes, perception, verbal learning and memory. *Prerequisites:* PSYC 1300 and three additional course hours, or instructor approval.

3335. Psychology of the Family. A basic introduction to understanding the family. Topics include coupling and dating, parenting of young and older children, and progression to older age. Other topics include understanding competent family functioning, dealing with health and illness, and family counseling. *Prerequisites:* PSYC 1300 and three additional psychology course hours, or instructor approval.

3360. Health Psychology. A basic introduction to the subject. Topics include causes and correlates of health, illness, and dysfunction, as well as the interplay of emotions, cognitions, and behavioral/physical factors. *Prerequisites:* PSYC 1300 and three additional course hours, or instructor approval.

3364. Forensic Psychology. Examination of the interface between psychology and the legal system, focusing in particular on the role of mental health experts in criminal trials and civil disputes. *Prerequisites:* PSYC 1300 and three additional psychology course hours, or instructor approval.

3365. Organizational Psychology. Psychological principles applied to organizations, both business and volunteer, emphasizing a systems approach and including personnel selection, leadership, motivation, communication, group dynamics, and an overview of organizational developments. *Prerequisites:* PSYC 1300 and three additional psychology course hours, or instructor approval.

3370. Personality. An examination of theories that address the underlying bases of personality and the causes of individual differences. Emphasis is placed on the normal personality, but the causes of abnormal personality development are also considered. *Prerequisites:* PSYC 1300 and three additional psychology course hours, or instructor approval.

3371. Psychology of Women. This course focuses on understanding women as individuals. Personality theories will be considered as they relate particularly to women. Modern women's options and conflicts, motives and values, and their perceptions of their individuality in the face of rapid social change will be examined. *Prerequisites:* PSYC 1300 and three additional psychology course hours, or instructor approval.

4320. Biological Psychology. An advanced overview of the topic. Classes focus on understanding perception, consciousness and sleep, motor behavior emotion, and learning with evidence from biological and medical fields. Students will learn basic anatomy, physiology and research methods. Applications to research and treatment will be addressed. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4321. Behavioral Action of Drugs. Principles of drugs and behavior. Classification and chemical effects of behaviorally active drugs. Influences of environmental, response and task variables, as well as evaluation and treatment of addiction will be addressed. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4325. Psychology of Emotions. An advanced introduction to the topic, with a focus on theory as well as psychological and psychobiological research on humans and animals. Central topics to be considered are the role that cognitions, culture, language, and nervous system play in determining emotions. Classes include group projects and demonstrations. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4333. Domestic Violence and Children. Overview of research and theory on domestic violence and its effects on children. Applied component involves working with children in a domestic violence shelter and on research projects involving at-risk children and adolescents. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, and instructor approval.

4334. Psychological Disorders of Children. Theories, causes, assessment, and treatment of abnormal behavior from infancy through adolescence. Topics include behavioral and emotional disorders, as well as developmental and learning problems. Historical and cultural perspectives, ethics, and research methods are also addressed. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4339. Psychology of Aging. An exploration of the biological, psychological and sociocultural influences on adult development and aging. Difficulties specific to older adults such as elder abuse and neurodegenerative diseases are also covered. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4341. Social Cognition. Surveys social perception and cognition, including person perception, nonverbal communication, emotional expression, accuracy and stereotyping. Ecological, evolutionary and cognitive theoretical approaches are considered. *Prerequisites:* PSYC 1300, 2301, 2319, or instructor approval.

4342. Close Relationships. Course covers research and theory in the psychology of close relationships, including different theoretical perspectives; emphasis on attraction, relationship development and maintenance, communication, conflict resolution, and dissolution. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4352. Introduction to Clinical Psychology. A survey of the important issues and subfields of clinical psychology from the viewpoint of the scientist-practitioner model. Research, assessment, diagnosis and theories in the area of psychotherapy are covered. Intended for

students contemplating graduate school in clinical psychology or related fields. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4363. Conflict Resolution. This class covers research and theory in the psychology of interpersonal conflict, and mechanisms for resolving, managing or avoiding conflict. Emphasized domains are alternative dispute resolution, close relationships, the workplace and international conflict. *Prerequisites:* PSYC 1300, 2301, 2319, or instructor approval.

4381. Special Topics. Designed to cover topics that may have temporary or limited interest. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

4395. Practicum/Internship. An intensive study of interpersonal helping relationships based upon psychological theories and research findings. The emphasis will be upon supervised personal involvement with others. *Prerequisites:* PSYC 1300, 2301. Instructor consent required

5381. Special Topics. Designed to cover topics that may have temporary or limited interest. *Prerequisites:* PSYC 1300, 2301 and three additional psychology course hours, or instructor approval.

PUBLIC POLICY

smu.edu/dedman/majors/publicpolicy
Professor Dennis Ippolito **(Political Science), Director**

The public policy major is an interdisciplinary program in economics and political science. The B.A. degree in public policy is designed to provide students with the analytical skills and historical context to understand and deal with contemporary policy issues. The major in public policy is useful as preparation for work in government and business and as preparation for postgraduate study in law, public policy and the social sciences.

Major Requirements. The B.A. degree in public policy requires a total of 39 hours. The degree consists of two components:

1. A total of 24 hours of core courses:

   ECO 1311, 1312 *and* **3301**
   MATH 1309 *or* **1337**
   PLSC 1320, *and* **PLSC 1340** *or* **1380**
   PLSC 3320
   STAT 2301, 2331 *or* **4340**

2. At least 15 hours of advanced courses selected from the fields below, with no fewer than 6 hours in economics and 6 hours in political science or public policy.

To meet the advanced course requirements, students must take at least six hours in each of any two of the fields of political economy, law and social policy, and international politics and policy, as well as three hours from the quantitative methods field.

Note of Importance. Students must receive at least a *C-* in all classes counting toward the major.

List of fields and acceptable courses (additional prerequisites not contained in the core are listed in parentheses):

Political Economy

ECO 4366 Economics of the Public Sector
ECO 4371 Theory of Industrial Structure
ECO 4382 Economics of Regulated Industries
ECO 4385 Macroeconomics: Theory and Policy (*Prerequisite:* ECO 3302)

ECO 5361 Natural Resources and Energy Economics (*Prerequisite:* ECO 3302)
ECO 5365 Public Finance
PLSC 3329 Bureaucracy and Regulatory Politics
PLSC 3355 The Political Economy of the Welfare State
PLSC 3389 International Political Economy
PLSC 3390 Negotiating International Trade
PLSC 4329 The Politics of Economic Policy
PLSC 4333 Policy, Politics and the Budget
PLSC 4356 Latin American Political Economy

Law and Social Policy

ECO 4351 Labor Economics
ECO 4361 Economics of Education
ECO 5320 Health Economics
ECO 5337 Urban Economics
ECO 5353 Law and Economics
ECO 5357 Economics of Human Resources
PLSC 3321 Congress and the Legislative Process
PLSC 3327 Texas Politics
PLSC 3330 Law, Politics and the Supreme Court
PLSC 3335 Judicial Process
PLSC 3370 Women and Politics
PLSC 4321 Basic Issues in American Democracy
PLSC 4334 Politics and Legacies of the Civil Rights Movement
PLSC 4335 Constitutional Law
PLSC 4336 Civil Liberties: First Amendment and Privacy
PLSC 4337 Civil Rights
PLSC 4338 Criminal Process Rights
PLSC 4339 Women and the Law
PLSC 4341 Comparative Rights and Representation
PP 3310 Environmental Policy

International Politics and Policy

ECO 3321 International Economic Policy
ECO 4357 International Trade
ECO 4358 International Macroeconomic Theory and Policy (*Prerequisite:* ECO 3302)
ECO 5360 Economic Development: Macroeconomic Perspectives (*Prerequisite:* ECO 3302)
PLSC 3340 Western European Politics
PLSC 3345 Governments and Politics of the Middle East
PLSC 3346 Governments and Politics of Japan
PLSC 3347 Governments and Politics of Africa
PLSC 3348 Governments and Politics of Latin America
PLSC 3352 Chinese Politics
PLSC 3358 Government and Politics of Russia
PLSC 3383 The American Foreign Policy Process
PLSC 3389 International Political Economy
PLSC 4356 Latin American Political Economy
PLSC 4381 National Security Policy
PLSC 4382 Politics of Military Force
PLSC 4384 The American-Russian Relationship
PLSC 4386 Issues of U.S.-East Asia Relations
PLSC 4391 NAFTA and Free Trade in the Americas

Quantitative Methods

ECO 5341 Strategic Behavior
ECO 5350 Introductory Econometrics
ECO 5370 Cost-Benefit Analysis
ECO 5375 Economic and Business Forecasting

The Courses (PP)

3310. Environmental Policy. Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

RELIGIOUS STUDIES

relistud@mail.smu.edu

Professor Mark Chancey, **Department Chair**

Professors: Mark Chancey, Charles Curran, Carl Johan Elverskog, Robin Lovin. **Associate Professors:** William Barnard, Richard Cogley, Serge Frolov, John Lamoreaux. **Assistant Professors:** Jill DeTemple, Steven Lindquist.

Degree Program. The B.A. degree in religious studies is appropriate for a general liberal arts education and for pre-professional training leading to graduate degrees in religious studies, theology or other areas of the humanities.

Departmental courses are offered in four areas: *philosophical* studies of religious ideas and values, *historical* studies of religious movements and institutions, *scientific* studies of religious beliefs and behavior, and *textual* studies of religious traditions and scriptures. A well-balanced program of undergraduate study includes courses from each of these four areas. Students planning to undertake graduate studies are strongly encouraged to take the major with departmental distinction and to complete twelve term hours in either French or German.

Major Requirements. Thirty term hours in the department. Twenty-four must be completed in courses numbered above 3000 and must include RELI 3306 or 3307 and RELI 3319 or 3326.

Departmental Distinction. A student majoring in religious studies with a minimum overall GPA of 3.0 and a 3.5 GPA in the major by the middle of the junior year may apply for the degree with departmental distinction. Candidates for distinction must enroll in a directed research tutorial in the fall term of their senior year followed by an independent studies course in the spring term for which they will write a senior thesis. Only the directed research tutorial may be used to fulfill the 30-term-hour requirement for the major.

Minor Requirements. Students majoring in other departments or schools may obtain a minor in religious studies by completing 15 term hours in the department. Nine hours must be completed in courses numbered above 3000 and must include one course chosen from RELI 3306, 3307, 3319 or 3326.

The Courses (RELI)

1301. Ways of Being Religious. A comparative study of the beliefs and practices of a wide variety of religious traditions. Special attention to such perennial themes as God, salvation, evil, morality and death.

1303. Introduction to Eastern Religions. An introductory historical overview of the major religious traditions of Asia. The course will explore developments in religious and cultural trends expressed in South Asia (Hinduism, Buddhism, Jainism and Sikhism) and in East Asia (Confucianism, Taoism and Shintoism).

1304. Introduction to Western Religions. A historical introduction to Judaism, Christianity and Islam. Topics include Moses and ancient Israelite religion; Jesus and early Christianity; rabbinic Judaism; Muhammad and classical Islam; the birth of Protestantism; and Jewish, Christian and Islamic modernism.

1305. Introduction to Primal Religions. An introduction to the religious world views and ritual life of such primal cultures as Australian Aborigines, African tribal peoples and native North and South Americans, as well as the significance of the resurgence of neo-paganism in the West.

1311. Judaism, Christianity and the Bible. An exploration of the common and distinctive elements in Judaism and Christianity; a study of the historical relationships between Jews and Christians.

3302 (PHIL 3302). Problems in the Philosophy of Religion. The philosophy of religion, considering such problems as religious experience, human freedom, good and evil, belief in God and immortality.

3304. Introduction to Christian Theology. An exploration of such theological problems as the authority of the Bible, the reality of God, the meaning of Christ, the nature of humanity and the end of history in light of the biblical heritage and contemporary thought.

3305 (CF 3331). Religion as Story. An interpretation of stories as modes of religious discernment as well as means of religious communication, with special attention to selected narrative forms such as myth, fairy tale, novel and autobiography.

3306. Introduction to the Hindu Tradition. An exploration of the major attitudes and institutions that define the Hindu tradition, with attention to ideology, social organization and ritual in light of both historical development and contemporary practice.

3307. Introduction to Buddhism. Communal rituals, practice, ethics, and political involvement of the Buddhist community (sangha) as it has taken form in five cultural areas: India, South Asia, Tibet, East Asia and America.

3308. Christian Ethics and Moral Issues. An examination of the relationship between moral reasoning and Christian belief. An analysis of various Roman Catholic and Protestant theories of religious ethics and of specific questions of personal conduct and social policy.

3309 (CF 3361). Bioethics From a Christian Perspective. This course will examine bioethics from a Christian ethical perspective with special attention to different methodological approaches to the significant themes and realities involved (e.g., life, health, suffering, death), and to the most important issues faced today.

3310 (SOCI 3320). The Social-Scientific Study of Religion. An introduction to scientific ways of thinking about the social, cultural and psychological aspects of religious life. Attention is given to major thinkers and theories dealing with religion in the disciplines of anthropology, psychology, sociology and the social-scientific study of religion.

3314. Studies in Comparative Religion. An examination of a particular topic or theme as expressed in a variety of religious traditions, Eastern and Western, ancient and modern. Topics will vary from term to term.

3315. Religion in Politics. An examination of the impact of religious belief and ethical thought, as well as social, cultural and psychological factors, on the involvement of religious people in the political sphere. The course introduces the social-scientific study of religion to aid in the analysis of current and recent case studies, ranging from the conservatism of the "far right" to the revolution of the "left," and involving Christian, Jewish, Muslim, Hindu and Buddhist traditions.

3316 (CFA 3306). Religion and Science. An exploration of how religion and science understand such topics as the origins and destiny of the universe and the evolution of life.

3317 (CF 3357). Human Meaning and Value in Personal Life. An exploration of the two positive marks of a productive life – love and work – and the two threats to an abundant life – suffering and death.

3318 (CF 3316). The Hero in the Bible and the Ancient Near East. An examination of concepts of the hero in the literatures of ancient Mesopotamia, Canaan and Israel, with special attention to the nature of traditional narrative and to the relationship between the hero, society and the self.

3319. Introduction to the Hebrew Bible. An introduction to the Old Testament and to the religion and history of ancient Israel. Special emphasis will be given to the ancient Near Eastern roots of biblical religion and to the modern interpretation of biblical myth, epic and prophecy.

3320. Introduction to Classical Judaism. An introduction to the study of religion through examination of Judaism. The course will look at central Jewish religious ideas and how they developed within the rabbinic and medieval periods. Special attention will be given to conflicts and controversies, such as Judaism's rejection of early Christianity, heretical movements within medieval Judaism and Jewish attitudes toward other religions.

3321 (CF 3332). Religion and the Holocaust. A study of responses to the Holocaust by Jews and Christians. The course will begin with an overview of the history of the Holocaust as it affected the Jewish communities of Central and Eastern Europe. Students will then read personal memoirs of survivors of ghettos, concentration camps and Nazi Germany. Post-war responses will include questions of faith after the Holocaust, Christian responsibility for modern anti-Semitism, the impact of the Holocaust on the creation of the State of Israel and Middle East politics today, and post-war relations between Jews and Germans.

3324. The Jewish Experience in America. An examination of Jewish life in America, including history, literature, cultural expressions and religious beliefs from the 17th century to the present.

3326. Introduction to the New Testament. An introduction to the writings of the New Testament, the formative events, and the persons who played leading roles in the origin of Christianity.

3329. Introduction to Islam. An examination of the history, doctrines and rituals of the Muslim community, including Islam in both the past and the present and in its global context.

3330. The History of Christianity. An introduction to the European development of Christianity, focusing on the key movements, outstanding leaders and crucial turning points in the history of Christianity.

3331. Renewal of Roman Catholicism at the Second Vatican Council. The main section of the course will concentrate on a study of the more significant documents of the Second Vatican Council (1962–1965). An introductory part will consider the background prior to the Second Vatican Council and the changes that helped bring it about. A concluding part will deal with the more significant developments in Roman Catholicism in the last 30 years.

3333. Religion in America. A consideration of the history of religion in America from the colonial period to the present. Special emphasis on either selected religious groups, movements or thinkers.

3334. Conservatism and Liberalism in American Christianity. An examination of the fundamentalist, evangelical and liberal understandings of Christianity, with attention to the issues at stake, and the problems and possibilities of dialogue.

3335. Religious Sects and Cults in America. An examination of new religious movements that have originated in America (such as Mormonism, Seventh-Day Adventism, Scientology, Christian Science and the Nation of Islam) or have been transplanted here from abroad (e.g., Hasidic Judaism, Theosophy, the Unification Church, the Hare Krishna movement and Baha'i).

3336. African-American Religious History. An examination of the major movements, figures and critical issues in African-American religious history. The focus is on the United States, although West African, Caribbean and South American materials are included. Special attention is given to slave religion, the civil rights movement and black criticism of Christianity.

3337 (CF 3356). Christianity and American Public Life. Course objectives are 1) to acquaint students with some recent criticisms of the dangers of individualism permeating American understanding and life, 2) to propose the communitarian dimensions of human existence from the Christian perspective and 3) to help students enter more critically into the dialogue about the role of religion in pluralistic contemporary American society.

3338 (CFA 3338). Christ as a Cultural Hero. An exploration of the impact of Jesus on the history of Western culture, not only in religion and philosophy, but also in the fine arts, literature and politics.

3339 (CFA 3339). The Puritan Tradition in England and America. An examination of the religious, political, scientific, economic and literary dimensions of the Puritan movement in Tudor-Stuart England and in colonial America.

3340. Religious Experience. An examination of the varieties of religious experience from traditional forms of mystical and ecstatic experience, to nontraditional forms of altered states of consciousness. Attention is given to social, cultural, ethical, psychological and existential dimensions of religious experience approached from a cross-cultural perspective.

3349. Early Christianity. Major developments in the history of Christianity from 100–600. Emphasis is placed on institutional and ideological developments.

3350. History of Biblical Interpretation. A survey of the interpretive approaches to the Bible in Jewish and Christian traditions from ancient times to the modern era. Topics will include interpretation in the biblical period, rabbinic and early Christian exegesis, mystical interpretation, and modern historical scholarship. The social context and the aims of interpretation will be key concerns of the course.

3352 (CF 3346). Love and Death in Ancient Mythology. An exploration of love and death in the mythologies of Mesopotamia, Egypt, Canaan, Greece and India. The interaction of these twin themes will be pursued as a key to the religious and philosophical perspectives of these ancient peoples. The significance of ancient mythology for modern reflection will be a central concern throughout the course.

3353 (CFB 3353). Borderlands: Latino/Latina Religions in the United States. An introduction to Latino/Latina religions and religious practices in the United States, with a special emphasis on social constructions of the "borderland."

3358 (CFA 3322). The Psychology of Religion. An investigation of the biological and psychological underpinnings of religious belief, behavior and experience, as well as the psychological and biological consequences of religion.

3359. Nordic Mythology. The religion and worldview of the pre-Christian Scandinavians is reflected in the mythology preserved in medieval texts and poems from the Viking age (800–1050). The course is based on readings of these primary texts. The Icelandic sagas further provide a glimpse into the culture and values of the Vikings. (SMU-in-Copenhagen)

3360. The History of Judaism. An overview of both the historical development of the Jewish tradition and its central laws, religious practices and theology.

3362. Islam and the West. A study of past and present encounters between Islam and the West, with special attention to the bearing of the contemporary Islamic resurgence upon encounters today.

3364. Native American Religions. An investigation of the mythologies of North America, centering on Southwestern and Northern Plains cultures. Native texts will be approached by way of modern theories of the interpretation of myth, ritual and religion. Topics include creation myths, culture heroes, trickster tales, sacred music and dance, and rites of healing and passage.

3365 (CF 3339). Understanding the Self: East and West. An examination of several basic notions pertaining to selfhood, including consciousness, cognition, motivation, personal identity and decision, as found in Eastern and Western sources.

3366 (ANTH 3366). Magic, Myth and Religion Across Cultures. A cross-cultural and comparative exploration of religion, ritual, magic and supernatural belief systems among peoples of the world. Examines how religion permeates other aspects of society and culture.

3367. The Religious Life of China and Japan. An introduction to the history, thought and religious practices of Taoism, Confucianism, Shintoism and Mahayana Buddhism.

3368 (CF 3368). Wholeness and Holiness: Religion and Healing Across Cultures. An exploration of various understandings of the relationship between religion and healing. Analysis of the interface between medical and religious models of health through a wide

range of ethnographic examples and theoretical perspectives. Special attention is also given to different religious healing modalities.

3370. Great Religious Leaders. A comparative study of the life and thought of outstanding representatives of diverse religious traditions, with special attention to founders and revitalizers of the world religions.

3371 (CFA 3307). The World of the New Testament. Investigates the intersections of political history, social history, philosophical thought, and religious belief and practice, with particular attention to Judaism and Christianity in their Greco-Roman context.

3372. Biblical Interpretation and the State of Israel. An examination of the ways in which the Bible has been interpreted both in support of and in opposition to the modern state of Israel.

3374. Female and Male in Religion and Culture. How does the study of gender differences affect our understanding of history, religion and culture? This course will take a critical look at current discussions in the field of women's studies and their impact on contemporary thought.

3375 (CF 3343). Wives, Mothers, Lovers, Queens: Expressions of the Feminine Divine in World Religions and Cultures. A historical and cross-cultural overview of the relationship between feminine and religious cultural expressions through comparative examinations and analyses of various goddess figures in world religions.

3376 (CF 3344). Constructions of Gender, Sexuality and the Family in South Asian Religions. A comprehensive historical overview of gender issues as they are represented in the great textual traditions of South Asia. To make these classical texts more relevant, readings in recent anthropological studies of religion will also be included to enable the student to trace recurring gender themes, images and symbols.

3377 (CF 3399). The Cultural History of Tibet. A critical study of Tibetan history, culture and religion and how these aspects relate to the representation of Tibet in travel, scholarly and popular literature.

3378. Religions of China. A historical survey of the religious cultures of China from the ancient Shang dynasty through the contemporary period.

3380. Women and Religion in America. A historical introduction to the role of women in American religious history with special attention to the interplay between women and wider religious and cultural values.

3382. Mysticism, East and West. An inquiry into mysticism as a path for attaining individual religious fulfillment. Attention to such mystic traditions as Zen, Tantra, Yoga, Sufism, Kabbalah and Christian mysticism.

3384 (CFB 3384). Hinduism and Colonial Encounters. A critical study of the history of colonialism in India and its impact on social, religious and political discourse.

3385. Philosophies of India. An examination of some of the major traditions of Indian systematic philosophy. Attention to the analysis of consciousness, perception, language and the problems of validation.

3386. Myths, Epics and Tales From Ancient India. This course examines religious narratives from ancient India. Students will read and analyze many examples across different genres (myth, epic, folktale) in text and performance, focusing on literary and historical context and interpretation.

4198, 4199. Independent Study.

4298, 4299. Independent Study.

4352. Jesus and the Gospels. An examination of canonical and noncanonical Christian Gospels, with special attention to methods of gospel research and to the study of the historical Jesus.

4354. The Prophets of the Old Testament. An introduction to the writings and religious concepts of the prophets of ancient Israel. Special emphasis will be given to the roots of prophecy in ancient Near Eastern religions, the social role of the Israelite prophet, and comparisons with seers and shamans of modern religious traditions.

4356. The Bible and Ethics. An examination of the ways in which Christians have appealed to scripture in ethical debates, with special attention to classic ethical approaches, specific ethical issues and methodological problems.

4371. Pauline Christianity. A study of Paul and Pauline Christianity, drawing on Paul's letters, the Acts of the Apostles and other documents of the New Testament.

4381. Internship in Religious Studies. Enables students to gain vocational experience by working in nonsectarian religious organizations and institutions, such as social justice agencies, ecumenical associations and charitable or educational foundations.

4198, 4199, 4298, 4299, 4398, 4399, 4498, 4499. Independent Study.

4388, 4389. Special Topics in Religious Studies. A detailed investigation of a topic chosen by the instructor. Topics vary.

4396, 4397. Directed Reading and Research. Special topics to be selected by the student in consultation with the department. Open to seniors upon departmental approval.

4398, 4399. Independent Study.

SOCIOLOGY

www.smu.edu/sociology

Professor Linda Brewster Stearns, **Chair**

Professors: Anthony Cortese, Linda Brewster Stearns. **Associate Professor:** Richard Hawkins. **Assistant Professors:** Dalia Abdel-Hady, Matthew R. Keller, Sheri Locklear Kunovich, Anne E. Lincoln. **Lecturers:** Debra Branch, J. Michael Cruz, Adrian Tan. **Adjunct Lecturer:** Karen de Olivares.

The sociology curriculum includes courses on research design, data analysis, social theory, and conceptualization of domestic and international organizational and social problems. In today's information society, these skills give sociology majors a competitive advantage in the fields of social research, criminology, demography, public administration, policy analysis, gerontology, education, social work and market research.

Sociology majors entering the business world often work in marketing research, human resources, management, industrial relations, public relations or sales. Sociology majors entering human services often work with youths at risk, the elderly or people experiencing problems related to poverty or substance abuse. Sociology majors entering the government sector often work in policy analysis, program evaluation or urban planning.

Requirements for the B.A. Degree. This major requires a minimum of 33 term hours, 18 of which must be at the advanced level. The four required courses include SOCI 2300 or 2310, SOCI 3311 and 3312, and SOCI 4313 or 4314. Of the remaining 21 credit hours, six hours must be at the 4000 level. Students should take SOCI 2300 or 2310 and SOCI 3311 or 3312 before taking a 4000-level course. STAT 1301 or 2331 can be counted as one of the 11 courses needed for the sociology major. Twelve term hours of foreign language are recommended.

Requirements for the B.S. Degree. The B.S. degree is a more specialized program than the B.A degree. It provides a sound foundation for graduate study in sociology or law. The major requires 36 term hours, 18 of which must be at the advanced level. The five required courses include SOCI 2300 or 2310, and SOCI 3311, 3312, 4313, 4314. Of the remaining 21 credit hours, nine hours must be at the 4000 level. Students should take SOCI 2300 or 2310 and SOCI 3311 or 3312 before taking a 4000-level course. STAT 1301 or 2331 may be counted as one of the courses within the sociology major. Twelve term hours of foreign language are recommended.

The Department Distinction Program. Students wishing to work for distinction in sociology should consult the director of Undergraduate Studies as soon as possible

in the junior year. Students will be expected to engage in original research (based on a topic covered in a 3000- or 4000-level course) and write a journal-length article under the supervision of a faculty member while enrolled in SOCI 4396. At the end of the term, the supervising faculty will make a recommendation to departmental faculty regarding distinction. The department committee will then evaluate the merits of the paper and determine if distinction will be awarded. Either a B.A. or B.S. student can attempt distinction in sociology.

Requirements for Minor in Sociology. Students majoring in other departments may obtain a minor in sociology by completing SOCI 2300 or 2310; one of the following: SOCI 3311, 3312, 4313 or 4314; one additional course at the 4000 level; and two courses at the 3000 level or above, for a total of 15 hours.

The Courses (SOCI)

2300. Social Problems. Selected problems of modern urban life analyzed with an emphasis on American values, the nature of community, and the manifest and latent functions of proposed solutions to social problems.

2310. Introduction to Sociology. The perspective and basic content of sociology, emphasizing the ways in which values and other beliefs influence social behavior.

2377. Markets and Culture. A general introduction to economic sociology, examining the effects of culture and social relations on shaping production, distribution and consumption in domestic and global markets.

3301 (ANTH 3301, CFB 3301). Health, Healing and Ethics: Cross-Cultural Perspectives on Sickness and Society. A cross-cultural exploration of cultures and organization of medical systems, economic development and the global exploration of biomedicine, and ethical dilemmas associated with medical technologies and global disparities in health. Meets Human Diversity corequirement.

3305 (CFA 3310, ETST 2301). Race and Ethnicity in the United States. An interdisciplinary seminar designed to introduce students to the analysis of race and ethnicity in the United States within a global context. Meets Human Diversity corequirement.

3311. Qualitative Research Methods. Course provides an overview of commonly used methodologies in sociology, with a focus on qualitative methods. Topics include the relationship between theory and qualitative methods, an inductive versus deductive approach, data collection, data analysis and presentation of findings. *Prerequisite:* SOCI 2300 or 2310.

3312. Survey Research Methods and Data Analysis. Course provides an overview of social survey design and collection of quantitative survey data. Topics include questionnaire design, field implementation, statistical analysis of data and presentation of findings. Lab sessions will investigate sociological data sets. *Prerequisite:* SOCI 2300 or 2310.

3320 (RELI 3310). The Social-Scientific Study of Religion. An introduction to scientific ways of thinking about the social, cultural and psychological aspects of religious life. Attentive to major thinkers and theories dealing with religion in the disciplines of anthropology, psychology, sociology and the social-scientific study of religion.

3330. Person vs. Society. Social-psychological examination of causes and consequences of conformity and loss of individuality; emphasis on strategies for countering pressures to conform and for achieving personal autonomy.

3340. Global Society. Provides students with a sociological orientation to the contemporary world viewed as an evolving network of nation-states. Focusing on the global interdependence of countries, the position of societies in the world system will be related to their internal patterns of social stratification.

3345. Media Ethics and Gender. Provides a broad historical and contemporary background to the study of media, ethics and gender images – both in the U.S. and abroad.

3351. Marriage and Family. Husband-wife and parent-child relations in the United States; traditions and alternatives.

3355. Family Conflict. Domestic violence, conflict over child custody in divorce, incest and child abuse, neglect and failure to support are topics in the changing family in America. Intergenerational issues and problems are also discussed.

3360. Law and Society. Designed to give students a broad overview of the history and functions of our major legal institutions and their relationship to American culture and social structure.

3363. Crime and Delinquency. Extent of the problem, causal theories, prevention and public policy.

3368 (ANTH 3368). Urban Life: A Cross-Cultural Perspective. An introduction to urban life and culture around the world, including how we study cities, who inhabits cities, and the special features of city places and spaces. Meets Human Diversity corequirement.

3370. Minority-Dominant Relations. The nature, origins and consequences of relationships between unequal groups; U.S. and other societies compared.

3371. Sociology of Gender. Roles of men and women in American society; analysis of the acquisition, content and consequences of sex roles; and social movements and implications for social change.

3372. Chicanos in the Southwest. Contemporary Chicano life and culture in the Southwest; effects of racism and rapid urbanization.

3377. Organizations and Their Environments. Explores the theories and relationships between organizations and environment. Applies these theories to the analysis of real world organization activities. *Prerequisite:* SOCI 2377.

3383 (CF 3385). Race, Culture and Social Policy in the Southwest. This interdisciplinary seminar introduces students to conceptualizing social problems. Focus is on the distinctive conditions defined and treated as social problems in the American Southwest. Meets Human Diversity corequirement.

4193, 4293, 4393. Individual Research. *Prerequisites:* SOCI 2300 or 2310, SOCI 3311 or 3312, and one 3000-level course.

4313. The Sociological Tradition. Introduction to ideas and theories of 19th- and early 20th-century sociologists. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4314. Contemporary Sociological Theory. Recent trends in sociological theory and research. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4321. Immigration and Population Issues. Causes and consequences of population growth and change in the United States and the world. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4335. Social Movements and Collective Behavior. Nature, causes and consequences of crowds, riots, fads, public opinion, social movements and revolution. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4340. Sociology of Culture. This course provides an overview of the sociological study of culture and focuses on the ways language, artifacts, ideas, identities and narratives construct social reality. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4353. Political Sociology. Political movements, the impact of politics on other institutions in America, and issues of power and control are discussed. Global issues of economics and political power are included. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4360. Gangs in the United States: Developing Historical, Social and Theoretical Understandings of a Modern Problem. An examination of the history, development and structures of gangs in the U.S., which incorporates explanatory theories, policy and models for prevention, intervention and suppression of gang activity. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4363. The Administration of Justice. Law enforcement and criminal court systems; the ideal of justice and public policy. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4364. Correctional Systems. The history of punishment, adjustment to incarceration, and comparison of prisons for men and women. Constitutional issues of criminal punishment are discussed. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4366. Deviant Behavior. Causes and consequences of deviant behavior; evaluation of leading theories. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4372. Wealth and Consumption. This course focuses on how group membership (e.g. race, social class) and societal forces (e.g. economic development) affect spending and savings patterns with particular attention paid to sociological theories of consumption. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4373. Class, Race and Gender Inequalities. Unequal distribution of power, prestige and opportunity within society; causes and consequences. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4374. Social Change. Review of major social-change theories emphasizing technology, modernization, social power, and impact of change on individuals and institutions. Also examines possible solutions to resulting problems. Seminar format. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4377. Contemporary Markets and Culture. Students apply knowledge acquired in core markets and culture courses to develop critical understanding of the social, economic, technological and political forces shaping current global markets. *Prerequisites:* SOCI 2377 and 3377.

4379. Markets and Culture Internship. By arrangement with faculty sponsor and program adviser. Eligible students will perform an analysis of a particular market and culture problem at the interning firm or organization. The project will be approved by the student, faculty sponsor, program adviser, director, and interning firm or organization prior to term registration. In addition, the student must complete a 15- to 20-page paper under the supervision of the faculty sponsor and give an oral presentation to the faculty sponsor and program adviser. *Prerequisites:* 3.0 GPA in markets and culture major, and 3.0 average in SOCI 2377 and 3377.

4396. Individual Research for Distinction. *Prerequisites:* SOCI 2300 or 2310, SOCI 3311 or 3312, one 3000-level course, and permission of director of Undergraduate Studies.

4398. Sociological Internship. *Prerequisites:* SOCI 2300 or 2310, SOCI 3311 or 3312, and permission of director of undergraduate studies.

4399. Special Topics: Sociology Seminar. Seminar on selected sociological areas. May be repeated for credit if topics differ. *Prerequisites:* SOCI 2300 or 2310, and SOCI 3311 or 3312.

4401–4. Washington Term. Intensive study of domestic and international economic, political, and social institutions. Includes a 4-hour research project (4401), a 4-hour internship (4402), and two 4-hour seminars (4403 and 4404). *Prerequisites:* Two courses in the markets and culture or sociology major or sociology minor (at least one at the upper level) that are relevant to the selected program, and permission of the department chair.

STATISTICAL SCIENCE

www.smu.edu/statistics

Professor Wayne Woodward, **Department Chair**

Professors: Ronald Butler, Richard Gunst, William Schucany, Lynne Stokes, Wayne Woodward. **Associate Professors:** Ian Harris, Monnie McGee, Hon Keung Ng, Sherry Wang. **Assistant Professor:** Jing Cao. ***Emeritus* Professors:** Narayan Bhat, Henry Gray, Chandrakant Kapadia, Campbell Read.

Statistics is the science of collecting, analyzing and interpreting data. The science of statistics is applicable in every setting where decisions are to be made or knowledge is to be advanced based on the analysis of data. Application fields include almost every academic discipline, including business, engineering and the natural and social sciences. Selecting the best medical treatment for a particular form of cancer, determining whether to use sampling methods to augment a census, and evaluating temperature trends for evidence of greenhouse-induced climate change are diverse examples of settings in which statistical science has made important contributions. Because of its interdisciplinary nature, statistical science is an exciting and valuable double major or minor.

Requirements for the B.S. Degree. The B.S. in statistical science prepares students for advanced studies in statistical science, such as graduate work in the field or in a related discipline.

B.S. in Statistical Science (42 hours)

MATH 1337, 1338, 2339
STAT 4340 *or* **5340, 5371, 5372, 4399**

Electives – 21 hours selected from the following, including at least 9 hours in advanced statistics

STAT 1301 *or* **2301** *or* **2331** *or* **ITOM 2305** (no more than one), **3312, 3370, 3380, 4385, 5377**
MATH 2343, 3353 (highly recommended)
EMIS 3360, 5361, 5369
ECON 5350, 5375, 5385
or other approved courses

Requirements for the Minor. A minor in statistical science is a valuable complement to majors in the natural or social sciences, engineering or business. Students planning careers that involve the collection, processing, description and/or the analysis of quantitative information will enhance their career opportunities with a minor in statistical science. A minor in statistical science requires at least 15 term hours, as specified below.

STAT 1301, 2301 *or* **2331** *or* **ITOM 2305** (no more than 3 hours)
STAT 3312, 3370, 3380, 4385, 5377; PSYC 2301 (at least 6 hours)
STAT 5371, 5372 (6 hours)

The Courses (STAT)

1301. Introduction to Statistics. Introduction to collecting observations and measurements, organizing data, accounting for variability, and applying fundamental concepts and principles of decision-making. Emphasis is placed on statistical reasoning and the uses and misuses of statistics.

2301. Statistics for Modern Business Decisions. A foundation in data analysis and probability models is followed by elementary applications of confidence intervals, hypothesis testing, correlation and regression. *Prerequisite:* GEC Math Fundamentals or equivalent.

2331. Introduction to Statistical Methods. An introduction to statistics for behavioral, biological and social scientists. Topics include descriptive statistics, probability and inferential statistics including hypothesis testing, and contingency tables. *Prerequisite:* GEC Math Fundamentals or equivalent.

3312. Categorical Data Analysis. Examines techniques for analyzing data that are described by categories or classes. Discusses classical chi-square tests and modern log-linear models. Emphasizes practical applications using computer calculations and graphics. *Prerequisite:* STAT 2301 or 2331, or equivalent.

3370. Survey Sampling. Principles of Planning and Conducting Surveys. Simple random sampling; stratified, systematic, subsampling; means, variances, confidence limits; finite population correction; and margin of error and sample-size determination. *Prerequisite:* STAT 2301 or 2331, or equivalent.

3380. Environmental Statistics. Examines statistical design and analysis methods relevant to environmental sampling, monitoring and impact assessment. Emphasizes statistical procedures that accommodate the likely temporal and spatial correlation in environmental data. *Prerequisite:* STAT 2301 or 2331, or equivalent.

4340 (CSE 4340, EMIS 4340). Statistical Methods for Engineers and Applied Scientists. Basic concepts of probability and statistics useful in the solution of engineering and applied science problems. Topics include probability, probability distributions, data analysis,

sampling distributions, estimation and simple tests of hypothesis. *Prerequisites:* MATH 1337 and 1338.

4385. Introduction to Nonparametric Statistics. A survey of statistical methods that do not require explicit distributional assumptions such as normality. One- and multisample analyses based on ranks and permutation procedures. Introduction to bootstrapping, simulation and nonparametric regression. *Prerequisite:* STAT 2301 or 2331, or equivalent.

4399. Statistical Science in Practice. Practical experience on projects dealing with the collection, analysis and interpretation of data. Three to four major projects, including one of the student's design. Case studies from a variety of disciplines. *Prerequisite:* Statistical science major or minor with senior class standing.

For Undergraduate and Graduate Students

These courses do not carry graduate credit for students in the M.S. program or in the Ph.D. program in statistical science.

5110 and 5310. Independent Study in Statistical Science. Independent study of a selected topic in statistical science. Individual study under direction of a faculty member allowed for 5110; group projects allowed for 5310.

5340 (EMIS 5370). Probability and Statistics for Scientists and Engineers. Introduction to fundamentals of probability and distribution theory, and statistical techniques used by engineers and physical scientists. Examples of tests of significance, operating characteristic curve, tests of hypothesis about one and two parameters, estimation, analysis of variance, and the choice of a particular experimental procedure and sample size. *Prerequisites:* MATH 1337, 1338 and 2339, or equivalent.

5344 (EMIS 5364). Statistical Quality Control. Statistics and simple probability are introduced in terms of problems that arise in manufacturing, as well as their application to control of manufacturing processes. Includes acceptance sampling in terms of standard sampling plans: MIL-STD 105, MIL-STD 414, Dodge-Romig plans, continuous sampling plans, etc. *Prerequisite:* STAT 4340 or 5340.

5371. Experimental Statistics I. A noncalculus development of the fundamental procedures of applied experimental statistics, beginning with tests of hypotheses and interval estimation for the normal and binomialdistributions, and introducing power analysis and sample-size estimation for a variety of multiple-treatment designs. *Prerequisite:* STAT 2301 or 2331, or permission of instructor.

5372. Experimental Statistics II. A survey of multivariate statistical methods in an applied setting, including multiple regression, dichotomous and polytomous logistic regression, multivariate analysis of variance, linear and quadratic discriminate analysis, and factor analysis and principal components analysis. *Prerequisite:* STAT 5371.

5377. Statistical Design and Analysis of Experiments. Introduction to statistical principles in the design and analysis of industrial experiments. Covers completely randomized, randomized complete and incomplete block, Latin square, and Plackett-Burman screening designs. Includes complete and fractional factorial experiments, descriptive and inferential statistics, analysis of variance models, and mean comparisons. *Prerequisite:* STAT 4340 or 5371, or permission of instructor.

WOMEN'S AND GENDER STUDIES

www.smu.edu/womgenstudies
Associate Professor Beth Newman, **Director**
Senior Lecturer: Josephine Caldwell-Ryan

Students in the Women's and Gender Studies Program explore a wide variety of disciplines and life experiences through gender, which is the set of meanings that societies attach to individuals being female or male. The program's dual name acknowledges two ways of focusing the inquiry. Women's studies analyzes the traditionally overlooked intellectual, artistic, political and social contributions of women.

Gender studies extends the interdisciplinary methods of women's studies to a broader range of issues, including the social and cultural meanings of masculinity and the relationships between gender and sexuality. Through participation in women's and gender studies courses, SMU students, both male and female, are exposed to new ways of thinking about traditional academic disciplines as well as matters of personal identity. Because it is interdisciplinary, a minor in women's and gender studies complements a variety of majors and minors, especially those in the humanities, social sciences and fine arts.

Requirements for the Minor. Students must take a minimum of 15 hours, including WGST 2322 (or an approved substitute) and 12 additional hours. At least nine hours must be at the advanced level. Students satisfy these requirements through a combination of core courses (WGST) and a wide array of courses offered by many departments in Dedman, Meadows and Perkins. (Courses marked "subject to approval" are "topics" and "problems" courses that earn credit toward the minor only when offered under specific pre-approved titles.)

The Courses (WGST)

2308. Revisions: Woman as Thinker, Artist and Citizen. Designed to discover how an emphasis on the particular experiences of women can enhance and complicate traditionally conceived areas of scholarship and critical endeavor. Also explores areas of women's experience traditionally undervalued, such as friendship, sexuality, motherhood and old age.

2309. Lesbian and Gay Literature and Film: Minority Discourse and Social Power. The exploration, through literature and film, of the struggles by gay men and lesbians to create social identities and achieve human rights. Study of key cultures and pivotal historical periods in the West from ancient Greece to contemporary America.

2315. Gender, Culture and Society. An interdisciplinary study of gender ideology stressing anthropological and literary perspectives, this course analyzes gender difference as a structuring principle in all societies and explores some of its representations in literature, film and contemporary discourse.

2322. Gender: Images and Perspectives. An interdisciplinary examination of the ways femininity and masculinity have been represented in the past and the present, with attention to what is constant and what changes.

2380. Human Sexuality. This course explores the biosocial aspects of human sexuality and sexual behaviors. A multidisciplinary and cross-cultural perspective will be used to address a wide range of theoretical and pragmatic sexual issues.

3310. Gender and Human Rights. Introduction to global women's human rights and other intersections of human rights and gender, such as abuse of children's rights, gender-based violence, health and reproductive rights, and evolving concepts of sexual rights.

3347 (FL 3363). Figuring the Feminine. This course introduces students to a large body of French literary texts (in translation) by and about women, which bear witness to women's struggle for civil, social and political adulthood. They span the period from the 14th century to the present.

3370 (ENGL 3364). Women in the Southwest. A study and exploration of women writers, artists and thinkers in the American Southwest and their vision of this region as singularly hospitable to women's culture.

3381 (ARHS 4371). Modern Myth-Making. The quest for enduring cultural heroes and the projection of changing social messages as reflected in art from past epochs to modern times.

3382. Women's Body Politics. A cross-cultural, interdisciplinary exploration of the cultural and ideological work that women's bodies perform as reflected in literature, art, medicine, philosophy and political discourses from the Classical era to today.

4209. Independent Studies. A supervised practicum and/or directed readings on specific problems or themes under faculty guidance. Approval of coordinator is required.

4303. Women Studies Internship. Offers students experience with organizations serving women or addressing women's and gender issues, as well as with varied potential careers or volunteer opportunities in the community.

4309. Independent Studies. A supervised practicum and/or directed readings on special problems or themes formulated by the student with faculty guidance and the approval of the director of Women's Studies.

6300 (TC 8375). Advanced Feminist Theory. Explores feminist theories that seek to explain women's subordination historically and cross-culturally, examines gender as a principle of social organization, and addresses the linkages among gender, ethnicity and class from the vantage of multiple disciplines.

The following courses may also be used to meet minor requirements:

ANTH 3310 Gender and Sex Roles: A Global Perspective
ANTH 3336 Gender and Globalization: Cultural and Ethical Issues
ARHS 3358, 6389 Women in the Visual Arts: Both Sides of the Easel
ARHS 4371 (WGST 3381) Modern Myth-Making
CCJN 4360 Women and Minorities in Mass Media
CTV 2332 American Popular Film
CTV 2362 Diversity and American Film
CTV 3302 Images of Women in Television (subject to approval)
CTV 3310 Screen Artists (subject to approval)
CTV 3360 Gender and Representation in World Cinema
CTV 3395, 3398 Topics in Cinema/Television (subject to approval)
CTV 4350 Gender Issues in Communication
ECO 4351 Labor Economics
ECO 5357 Economics of Human Resources
ENGL 1360 The American Heroine: Fiction and Fact
ENGL 3344 Victorian Gender
ENGL 3367 Ethical Implications of Children's Literature
ENGL 3371 (HIST 3357) Joan of Arc: Her Story in History, Literature and Film
ENGL 3377 Literature and the Construction of Homosexuality
ENGL 3373 (FL 3359) Masculinities: Images and Perspectives
ENGL 3364 (WGST 3370) Women and the Southwest
ENGL 3379 Literary and Cultural Contexts of Disability: Gender, Care and Justice
ENGL 3361, 4363, 6391, 6392, 6393, 6394, 6395 Seminars (subject to approval)
FL 3312 Women in Modern China
FL 3359 (ENGL 3359) Masculinities: Literary Images and Perspectives
FL 3363 (WGST 3347) Figuring the Feminine
HIST 1322 Seminar in European History: Renaissance Queens and Mistresses (subject to approval)
HIST 3301 Human Rights: America's Dilemma
HIST 3310 Problems in American History: Women's Movements/Gender Systems
HIST 3312 Women in American History
HIST 3317 Women in Latin American Societies
HIST 3329 Women in Early Modern Europe
HIST 3330 Women in Modern European History
HIST 3348 American Families: Changing Experiences and Expectations
HIST 3355 Class and Gender in Ancient Society
HIST 3357 (ENGL 3371) Joan of Arc: Her Story in History, Literature and Film
HIST 3394 The New Woman: The Emergence of Modern Womanhood in the U.S., 1890 to 1930
HIST 3398 Women in Chinese History
HIST 4304 At the Crossroads: Gender and Sexuality in the Southwest

HR 8331 Women in World Religions (instructor approval)
HX 7327 Women in the History of Christianity (instructor approval)
HX 8329 Mary and Christian Tradition (instructor approval)
MDVL 3352 Ideas and Ideals of Gender in the Middle Ages
MUHI 3341 Women and Music "Like a Virgin": From Hildegard to Madonna
MUHI 4341 Women Composers and Performers in the 19th and 20th Centuries (majors only)
PHIL 3305 Philosophy and Gender
PLSC 3370 Women and Politics
PLSC 4339 Women and the Law
PSYC 3371 Psychology of Women
RELI 3375 Wives, Mothers, Lovers, Queens: Expressions of the Feminine Divine in World Religions and Cultures
RELI 3376 Constructions of Gender, Sexuality and the Family in South Asian Religions
SOCI 3351 Marriage and the Family
SOCI 3371 Sociology of Gender
SOCI 4373 Race, Gender and Inequality
ST 8375 Feminist and Womanist Theologies (instructor approval)
THEA 4383 Gender and Performance
WO 8308 Women and Worship (instructor approval)