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. This college would provide the basic foundations in liberal arts education to all SMU students and 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 was renamed Dedman College.

In addition to being the oldest academic unit at SMU, Dedman College is also the largest. Annually, approximately 1,400 undergraduate students majored in Dedman College programs, and the school enrolls approximately 350 graduate students. More than 270 full-time faculty members are based in the college's 16 academic departments. Undergraduate students in Dedman College may major and minor in more than 50 programs. Dedman College offers 18 graduate programs leading to a master's degree and 13 programs leading to a Ph.D. degree.

Academic Programs of Study

Majors in Dedman College include the following:

Anthropology
  Health and Society
Biochemistry
Biological Sciences
Chemistry
(Earth Sciences)
  Geology
  Geophysics
  Resource Geology
Economics
  w/Finance Applications
  w/Management Information Applications (concentration)
English
  English With Creative Writing
Environmental Sciences
Environmental Studies
(Ethnic Studies)
  African/African-Amer Studies
  Mexican-American Studies
History
Human Rights
Individualized Studies in the Liberal Arts
International Studies
Mathematics
Medieval Studies
Philosophy
Physics
Political Science
Psychology
Public Policy
Religious Studies
Sociology
  Markets and Culture
Statistical Science
(World Lang/Literatures)
  World Languages: Chinese
  World Languages: French
  World Languages: German
  World Languages: Italian
  World Languages: Spanish
  French
  French Studies
  German
  Spanish

Minors available include the following:

Anthropology
  Archaeological
  Biomedical
  Cultural
Biological Sciences
Chemistry
Classical Studies
(Earth Sciences)
  Geology
  Environmental Earth Sciences
Economics
  Econometrics
  Economic Growth/Devlp
  Economics of Decision-Making
  Economics of Industrial Organization
  International Economics
  Labor Economics
  Monetary Economics
  Public Economics
English
(Ethnic Studies)
  African-American Studies
  Mexican-American Studies
History
Human Rights
International Studies
  Asian Studies
  European Studies
  Latin Amer/Iberian Studies
  African/Middle East Studies
Mathematics
Medieval Studies
Natural Sciences
Philosophy
  Ethics
Physics
Political Science
  American Politics
  Law & Administration
  Comparative & International Studies
  Law and Legal Reasoning
  Public Policy & International Affairs
Psychology
Religious Studies
Jewish Studies
Sociology
Statistical Science
Women's and Gender Studies
(World Lang/Literatures)
  Arabic
  Chinese
  French
  German
  Italian
  Italian Area Studies
  Japanese
  Latin
  Russian Area Studies
  Spanish

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

Dedman College students may also complete second majors and minors in other schools on campus, including the Cox School of Business, the Lyle School of Engineering, the Meadows School of the Arts, and the Simmons School of Education and Human Development.

Honors Programs

During their first and second years at SMU, students may participate in the University Honors Program, described in the Academic Programs section of this catalog, and subsequently graduate with "Honors in the Liberal Arts." Students participating in the University Honors Program are encouraged to join a departmental distinction program (described in the Academic Programs section and under General Information in the Dedman College section) to earn the designation "honors in the liberal arts, departmental distinction" on their transcripts.

Programs for Preprofessional Students

Preprofessional students should become familiar with the entrance requirements of the particular professional school they intend to enter. Requirements differ to some extent even within the same profession, and some schools require that specific courses be included in the preprofessional curriculum.

Prelaw

SMU does not require pre-law students to declare a particular major or academic program. Prelaw seniors who go on to law school may have majors in any undergraduate schools. Success in law school requires skills in critical analysis, logical reasoning, and written and oral expression. The spoken and written word are the principal tools of the legal profession; thus, students who intend to study law must develop an excellent knowledge and grasp of the English language and a clear, concise style of expression.

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

The study of philosophy, literature, fine arts, world languages and other cultures imparts familiarity with traditions of universal thought and trends that have influenced 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. In some fields of legal practice, a knowledge of technology, engineering, computers and accounting is useful.

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, law schools require applicants for admission to hold a bachelor's degree from an accredited college or university. For additional prelaw information, and assistance in the application process, undergraduate students may consult the prelaw services in the University Advising Center.

Admission to Dedman School of Law. Admission to Dedman School of Law is based upon the applicant's academic record, Law School Admission Test score and other available data. More information is available from the Admissions Office, Dedman School of Law, PO Box 750110, Dallas TX 75275-0110; www.law.smu.edu/Prospective-Students.

Premedical/Predental

Medical and dental schools seek students who have demonstrated strength in the major of the student's choosing – and in the sciences in general. There is no preferred major but there are numerous prerequisite courses. Honors work is appropriate.

Most medical and dental schools require the following courses for entry. These courses should be completed by the end of the junior year: English, 6 hours; mathematics (including calculus),6 hours; biology, 8-14 hours (14 for Texas medical schools); chemistry, 16 hours; and physics, 8 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 courses will apply toward the University-wide 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 Office of Pre-Health Advising.

Undergraduate Internship Program

The Dedman College Undergraduate Internship Program helps students begin to prepare for employment. Internship credit is 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.
  Note: Noncredit-bearing internships are those without faculty, department or program supervision. Internship orientation is strongly suggested for noncredit-bearing internships. Students may be asked to sign a Release of Liability for some internships.
- Dedman Internship Program Orientation and Standardized University Release of Liability for Education Internship are required for credit-bearing internships.
- Internship credit and grades 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. In addition, students and site supervisors will complete evaluations of the experience. These evaluations are not considered in determination of the grade.
- An internship that is used to qualify for Dedman College course credit may not also be used to qualify for course credit in another SMU school.
- Internship credit requires a written component based on and reflective of the experiential dimension.
- Internship credit is 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.

Teacher Education

The University offers teacher education through the Simmons School of Education and Human Development 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. Prospective secondary teachers must have majors in appropriate teaching fields; students who wish to teach in a science or humanities discipline at the secondary level should combine a Dedman major in that area with the appropriate education (EDU) coursework through the Simmons School. More information is available from the Department of Teaching and Learning at 214-768-2780. For a general description of the program in teacher education, students should see the 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 world 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 to prepare a plan of study.

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

Courses Taken in SMU Abroad Programs

Up to 30 credit hours taken in approved SMU Abroad programs may be counted toward the degree requirements in Dedman College. Additional credit hours may be allowed through petition. Students should check individual departments within Dedman College for additional limitations.

Transfer Courses From Other Institutions

Once matriculated at SMU, students wishing to enroll for and transfer 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, and the Dedman College Office of Records and Academic Services. A maximum of 30 credit hours of postmatriculation transfer work may be approved. Approval may be denied for educational reasons. Postmatriculation transfer work must be completed at accredited, four-year institutions. Postmatriculation transfer work from nonaccredited or two-year institutions will not be approved. It may be possible, however to satisfy certain university curriculum requirements via transferable coursework.

ADMISSION

All incoming first-year students to the University are admitted as SMU Pre-Majors. Students should see the Admission to the University section of this catalog for admission requirements. Students wishing to pursue majors in the humanities, in the social or natural sciences, or in various multidisciplinary programs will declare a major 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 into academic departments in Dedman College requires the completion of 24 hours of coursework with a cumulative GPA of 2.000 or higher. Additional entry/admission requirements may exist within specific departments.

Admission From Other Schools Within SMU

An individual enrolled in another school of the University may apply to their current school for permission to transfer into a degree-granting program in Dedman College. A student who has achieved a cumulative GPA of 2.000 on all SMU work attempted will normally be admitted to candidacy for a degree in Dedman College. Some academic programs may have additional requirements. Students should 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 B.A. and B.S. degrees. Students should consult the individual programs of study outlined in the following sections of this catalog for the degree available in a specific area of study.

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 as well as the University-wide requirements. 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 of matriculation. Coursework counting toward a major must include at least 18 advanced hours in approved SMU credit courses completed at SMU. All advanced courses required for the major must be passed with a grade of *C-* or better and may not be taken pass/fail. In addition, Dedman College requires a cumulative GPA of 2.000 for all courses attempted for completion of a major or minor. Specific programs may require a higher GPA. 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 Dedman College Office of Records and Academic Services.

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 2.000 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 Dedman College Office of Records and Academic Services.

General Requirements

Student Responsibility for Completion of Degree Plan

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 Dedman College Office of Records and Academic Services a formal application for graduation by the deadlines listed in the University Calendar within this catalog.

Credits

A candidate for a degree in Dedman College must have

- A minimum total of 122 credit hours, including the University-wide requirements and the requirements for a major. Within this 122 hours are the following:
  - A minimum total of 42 advanced hours (3000 level or above).
  - Two hours of Personal Responsibility and Wellness.
  - A maximum total of three hours of internship credit.

Grades

A candidate for a degree in Dedman College must attain

- A minimum cumulative GPA of 2.000 on all work attempted through enrollment at SMU.
- A minimum cumulative GPA of 2.000 including all equivalent transfer 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 2.000 (or higher for certain programs) for all work attempted for completion of major or minor requirements.
- No more than 12 hours with a grade of *P* (Pass). This is in addition to any courses taken that are offered only as pass/fail.

Credit Requirement

As minimum requirements, a candidate for a degree in Dedman College must take the following numbers of credit hours through 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 may receive both degrees simultaneously by completing all requirements in each major, along with general requirements for a degree in Dedman College and University-wide requirements. However, a student may not pursue multiple programs affiliated with the same department or programs without permission from that department and the Dedman College Office of Records and Academic Services.

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, Lyle School of Engineering, Meadows School of the Arts, or Simmons School of Education and Human Development. The student must obtain approval for the proposed program of study from the records offices 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

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. 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. This award is conferred by the major department on the basis of 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 can be obtained from the individual departments in the Courses of Study in Dedman College section of this catalog or from www.smu.edu/dedman.

RESEARCH FACILITIES

The teaching laboratories of the departments of Biological Sciences, Chemistry, Earth Sciences and Physics are housed in the **Fondren Science Building** and in the **Dedman Life Sciences Building.** Virtually all teaching laboratories and support facilities in the buildings have been remodeled and updated. Students have access to a wide array of specialized instrumentation and laboratory equipment fundamental to studies in the natural sciences, including spectrophotometers, high-performance liquid chromatographs, scintillation counter, fluorescence-activated cell sorter, scanning laser confocal microscope, electron resonance spectrometer, X-ray diffractometers, mass spectrometers and an atomic absorption spectrometer. Advanced undergraduate research is also supported by tissue culture and animal care facilities, as well as through several departmental computer laboratories.

The **N.L. Heroy Science Hall** houses the departments of Anthropology, Earth Sciences and Statistical Sciences, as well as the Institute for the Study of Earth and Man. The **Institute for the Study of Earth and Man** was created in 1966 by a gift from W.B. Heroy, Sr. Its purpose is to support research at the interface of humans, Earth and the environment.

The **Department of Anthropology** operates the following research laboratories:

The **Geoarchaeology Laboratory** processes and analyzes soil and sediment samples as part of interdisciplinary archaeological research projects. Work in the lab follows two major threads: 1) paleofire and paleoenvironmental research using terrestrial sedimentary archives associated with archaeological landscapes and 2) behavioral geoarchaeology projects that use anthrosol chemistry and soil micromorphology to reconstruct activity areas or the life histories of domestic and public spaces. Specialized equipment includes a large-volume drying oven, large-volume muffle furnace, benchtop centrifuge, orbital shaker, portable phosphate colorimeter and benchtop magnetic susceptibility meter. Projects also benefit from partnerships with the SMU Roy M. Huffington Department of Earth Sciences and their facilities.

The **Material Sciences Laboratory** processes artifact collections and conducts data entry for artifacts collected from archeological sites in the American Southwest and Texas. It conducts experimental research with clays, temper and ceramics and contains a ceramic kiln, muffle furnace, drying oven, and digital and petrographic microscopes.

The **Laboratory of Traditional Technology** is used for carrying out systematic technological and performance analyses of materials from archeological sites, as well as experimental archaeological research, to better understand variability in regional assemblages. On-site special equipment includes binocular microscopes and muffle furnaces.

The **Medical Anthropology Laboratory,** funded by the National Institutes of Mental Health and the Hogg Foundation for Mental Health research, includes data storage, telephone and voicemail, office space for one research assistant, audio recording equipment, and a laptop installed with NVivo 10 and Atlas.ti software.

The **Molecular Anthropology Laboratories** specialize in the analysis of DNA from both modern and archaeological samples to address classic problems in anthropology.

The **Zooarchaeology Laboratory** houses a large collection of comparative mammalian and avian skeletal remains. The collections also include several unique experimental and one of the largest ethnoarchaeological faunal assemblages in the country.

Geospatial Laboratory computers have software used in GIS analysis.

The **QUEST Archaeological Program** maintains laboratories to analyze archeological materials (artifacts, faunal remains and sediments) collected in the course of fieldwork (primarily excavations). Equipment for analyzing sediments includes special ovens and related laboratory tools. In addition, the lab houses extensive comparative collections used for research and teaching. Archaeological collections, including the Tony Baker Paleoindian Collection, are available for study by qualified researchers.

The **Department of Earth Sciences** operates several unique laboratories, including the following:

The **Dallas Seismological Observatory,** established by the Dallas Geophysical Society and maintained and operated by the University, monitors remote seismic and infrasound stations in the western United States. The Lajitas array in Southwest Texas is used to test technology designed to detect small earthquakes from great distances. SMU operates seismic and infrasound arrays in Nevada and overseas locations. Data collected by the observatory are available to the faculty and advanced students who wish to undertake basic research in seismology, tectonics or infrasound.

The **Ellis W. Shuler Museum of Paleontology** houses research and teaching collections of fossil vertebrates, invertebrates and plants. The museum supports opportunities for advanced study of fossil faunas and floras and their evolutionary, climatic and paleoecologic significance. The collection, which specializes in vertebrate paleontology and paleobotany, includes more than 150,000 fossils. The research perspective is global, with particular strengths in advanced imaging techniques and interdisciplinary studies. Students participate in research on the collections, and many are employed in the museum's fully equipped preparation laboratories.

The **Pollen Analysis Laboratory** serves SMU research projects focused on the reconstruction of past vegetation, past climate and paleoecology at localities around the world. The facility includes two fume hoods, glassware, centrifuges, scales, a convection oven, and storage space necessary for the dry and wet processing of sediment samples for their pollen content. The laboratory is also used for the processing of fossil plant cuticle. Microscopic analysis of the resulting pollen-sample residues and cuticle slides takes place in a separate laboratory housing transmitted light and epifluorescence microscopes, a comparative collection of modern pollen, and a small paleobotany and palynology research library. Work in this laboratory is often supplemented by facilities in the Scanning Electron Microscope laboratory (described below).

The **Geothermal Laboratory** is the focus of an extensive, worldwide program of research in the thermal field of the Earth. Special topics of concentration include characterization and location of geothermal energy resources in sedimentary basins related to oil and gas wells, resource evaluation of enhanced geothermal systems, climate change determination in well profiles, and research on methane hydrates. Mapping of the crustal heat flow of North America was completed in 2004 and updated in 2011. As part of the Google.org heat flow project, the U.S. temperatures-at-depth were mapped in detail to 10 kilometers. Specialized equipment for the measurement of the thermal conductivity of rocks and for the measurement of accurate, precise temperature logs in deep wells is available for research purposes. Services are provided to other institutions and research centers on a contractual basis.

The **Hydrothermal Laboratory** contains equipment to reproduce the pressures and temperatures existing to midcrustal depths. It contains two extraction-quench sampling bombs that permit withdrawal of solution during the progress of a run to pressures of 3 kbar and temperatures of 750 degrees Celsius. There are also 10 cold-seal reaction vessels. In addition, 1-atm furnaces are available that can be used to temperatures of 1400 degrees Celsius.

The **Stable Isotope Laboratory** is a general research facility available to support both academic and student research at the University and in other research centers. The laboratory contains three automated gas-source, magnetic-sector isotope ratio mass spectrometers as well as vacuum extraction lines for converting natural materials (solids, liquids) into gases suitable for measuring the isotope ratios of hydrogen, carbon, nitrogen and oxygen at natural abundance.

The **Variable Pressure Scanning Electron Microscope Laboratory** contains a Zeiss SMT 1450 VPSE SEM used for generating electron photomicrographs with 5-nm resolution. The SEM is open to researchers and students from the departments of Earth Sciences, Environmental Sciences, Anthropology, Engineering and Chemistry. The facility is also equipped with an Edax energy dispersive X-ray system for quantitative determination of elemental compositions of the imaged materials.

The **X-ray Diffraction Laboratory** houses a Rigaku Ultima III diffractometer for the X-ray identification of materials with a crystalline structure and is open to researchers and students from the departments of Anthropology, Chemistry, Earth Sciences, Environmental Sciences and Engineering.

The **X-ray Fluorescence Laboratory** houses a Thermo Scientific ARL PERFORM'X X-ray fluorescence spectrometer. XRF analysis is a widely used analytical technique to determine the elemental composition from 10 ppm to 100 percent of a wide range of samples, both solids and liquids, with easy sample preparation and nondestructive analysis. The lab and its sample preparation tools are available to researchers and students working in Earth sciences, environmental sciences, anthropology, engineering and chemistry.

The **Transmission Electron Microscope Microscopy Laboratory,** located in the Department of Chemistry, houses a Leo 906 transmission electron microscope, which was donated to SMU by the Texas Scottish Rite Hospital for Children in Dallas. The TEM is also equipped with an Olympus KeenView digital camera.

The **Nuclear Magnetic Resonance Spectrometer Laboratory,** located in the Department of Chemistry, houses a 500 MHz JEOL NMR spectrometer and a 400 MHz Bruker NMR spectrometer, which are available to students and researchers. These instruments are the research progenitors of medical MRI scanners, capable of scanning 1H, 13C, 31P and many other nuclei.

AEROSPACE STUDIES: AIR FORCE ROTC

General Information

Air Force Reserve Officers' Training Corps courses are not offered on the SMU campus; however, 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 three 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 subsistence allowance ranging from $300 to $500. National scholarship competitions are 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 Air Force ROTC 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 Air Force ROTC courses may be taken as electives in most academic majors. Successful completion of degree requirements and the Air Force ROTC program can lead to a commission as a second lieutenant in the United States Air Force. Students with at least six months of active military service may be granted waivers on a portion of the general military course.

For more information, students should contact Air Force ROTC, University of North Texas, PO Box 305400, Denton TX 76203; 940-565-2074; det835@unt.edu; www.unt.edu/afrotc.

For information about Army ROTC, see the Army Reserve Officers' Training Corps section in the Lyle School of Engineering portion of the catalog.

The Courses (AERO)

AERO 1103 (1). FOUNDATIONS OF THE UNITED STATES AIR FORCE. Introduces the USAF and the AFROTC. Topics include mission and organization of the USAF, officership and professionalism, military customs and courtesies, USAF officer opportunities, and communication skills.

AERO 1104 (1). FOUNDATIONS OF THE UNITED STATES AIR FORCE. Introduces the USAF and the AFROTC. Topics include mission and organization of the USAF, officership and professionalism, military customs and courtesies, USAF officer opportunities, and communication skills.

AERO 2100 (1). 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.

AERO 2103 (1). THE EVOLUTION OF USAF AIR AND SPACE POWER. Examines general aspects of air and space power from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Extrapolates the development of Air Force capabilities (competencies) and missions (functions), and demonstrates the evolution of USAF air and space power. Students develop their communication skills and discuss the importance of the Air Force core values using operational examples and historical Air Force leaders.

AERO 2104 (1). THE EVOLUTION OF USAF AIR AND SPACE POWER. Examines general aspects of air and space power from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Extrapolates the development of Air Force capabilities (competencies) and missions (functions), and demonstrates the evolution of USAF air and space power. Students develop their communication skills and discuss the importance of the Air Force core values using operational examples and historical Air Force leaders.

AERO 2200 (2). 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.

AERO 2300 (3). 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.

AERO 2400 (4). 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.

AERO 3431 (4). 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. Uses case studies to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.

AERO 3432 (4). 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. Uses case studies to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.

AERO 4100 (1). 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:* 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4200 (2). 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:* 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4300 (3). 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:* 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4400 (4). 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:* 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4431 (4). NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY AND PREPARATION FOR ACTIVE DUTY. Examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Focuses on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, current issues affecting military professionalism, and communication skills.

AERO 4432 (4). NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY AND PREPARATION FOR ACTIVE DUTY. Examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Focuses on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, current issues affecting military professionalism, and communication skills.

ANTHROPOLOGY

www.smu.edu/anthro

Professor Karen Lupo, **Department Chair**

Professors: Eric G. Bing, Caroline Brettell, Karen Lupo, David Meltzer, Ronald Wetherington. **Associate Professors:** Michael Adler, Sunday Eiselt, Victoria Lockwood, Mark McCoy, Nia Parson, Christopher Roos, Carolyn Smith-Morris. **Assistant Professors:** Kacy Hollenback, Neely Myers, Nicolas Sternsdorff-Cisterna. **Lecturer:** Matthew Boulanger.

General Information

Anthropology is the study of humanity in its broadest context. Anthropology encompasses four subdisciplines within its approach: archaeology, biological anthropology, linguistic anthropology and sociocultural anthropology. In addition to providing the basis for careers in these subdisciplines, anthropology provides a background for professional careers in teaching, research, international affairs, medicine, business or law. The department offers B.A. and B.S. degrees with a major in anthropology and B.A. and B.S. degrees with a major in health and society. A grade of *C-* or better must be earned in all courses taken in fulfillment of the requirements for the major. Students must maintain a minimum 2.000 GPA in their major and should consult their departmental adviser periodically to review their progress.

Bachelor of Arts With a Major in Anthropology

The B.A. program is designed to provide students with a strong foundation in the diversity of human biology and culture over time. Students are able to shape their particular specialty within anthropology while developing research skills for life after graduation. The B.A. degree works well as a stand-alone major or when paired with another major for students pursuing diverse careers. Of the required 36 credit hours of anthropology, at least three credit hours must be at the 4000 level or higher. **Note:** ANTH 1321 is a preferred elective.

Requirements for the Major	*Credit Hours*
Core Courses	12
ANTH 2301, 2315, 2363, 4399	
Regional Courses (two from the following)	6
ANTH 3304, 3311–18, 3323, 3334, 3346, 3353, 3354, 3355, 3358, 3359, 3374, 3399	
Methods and Analysis Courses	6
ANTH 5681 *or* one from ANTH 3345, SOCI 3311 and one from ANTH 3351, 4325, 4333, 4391 (data analysis topic), 5310, SOCI 3312	
Anthropology Electives	12
(at least 3 credit hours at the 4000 level or higher)	
	36

Bachelor of Science With a Major in Anthropology

The B.S. program is designed for students who are particularly interested in careers in medicine, public health or research in anthropological or archaeological sciences. Of the 48 credit hours of anthropology and other related courses required, at least three credit hours must at the 4000 level or higher.

Requirements for the Major	*Credit Hours*
Core Courses	18
ANTH 2301, 2315, 2363, 4399, 5334 *or* 5335 STAT 2331	
Regional Courses (two from the following)	6
ANTH 3304, 3311–18, 3323, 3334, 3346, 3353, 3354, 3355, 3358, 3359, 3374, 3399	
Methods and Analysis Courses	6
ANTH 5681 *or* one from ANTH 3345, SOCI 3311 (B.S. students may take ANTH 5344) and one from ANTH 3351, 4325, 4333, 4391 (data analysis topic), 5310, SOCI 3312	
Advanced Statistics or Data Analysis Course (select one)	3
STAT 3312, 3380, 4385 SOCI 3312	
Advanced Social or Natural Science Courses (must be at the 3000 level or above)	6
6 credit hours from BIOL, CHEM, GEOL, or PHYS courses *or* 6 credit hours from ECON, PLSC, PSYC, or SOCI courses	
Anthropology Electives	9
(at least 3 credit hours at the 4000 level or higher)	
	48

Bachelor of Arts or Bachelor of Science With a Major in Health and Society

The health and society major is intended to promote a broad understanding of health and its determinants for students planning careers in the health professions. The program offers B.A. and B.S. scholars with knowledge spanning the sciences, social sciences, humanities and behavioral sciences through intensive collaboration and cross-disciplinary communication among students and faculty involved in the major.

Two concentrations are offered. Track 1, with physiological emphasis (B.S.), is a bench science track oriented to students pursuing graduate study in medicine, nursing, pharmacy, dentistry and other clinical fields. Track 2, with social and cultural emphasis (B.A. or B.S.), is a behavioral and social science track oriented to students pursuing allied health-related careers, research and graduate study in the allied health professions, including public health, health care administration, psychology, and medical anthropology or sociology.

Admission to this program is by competitive application to the department. Applications are accepted twice annually in September and February. Applicants must have completed at least 24 credit hours and the laboratory science courses required

for their specific program track. Additional information is available on the department's Web page.

Note: This program of study does not satisfy requirements for the Medical College Admission Test or medical school applications. Students preparing for admission to health-related graduate schools must consult with the prehealth professions adviser for further information and course requirements.

Requirements for the Major	*Credit Hours*
Foundation and Capstone Courses	15–16
ANTH 2301, *or* PSYC 1300, *or* SOCI 1300	
ANTH/SOCI 3301	
or PHIL 3376 *or* RELI 3309	
ANTH 3306	
ANTH 4343 *or* 5336 (or another capstone course approved by the professor and health and society director)	
Track 1: BIOL 1401 *or* CHEM 1303 (with lab CHEM 1113)	
Track 2: BIOL 1303 or 1401, *or* CHEM 1301 or 1303 (with lab CHEM 1113)	
Concentration Courses	20–29
Track 1: Physiological Emphasis (28 credit hours)	
MATH 1337	
or STAT 2331	
PSYC 3332	
Elective courses (22 hours) chosen from the following (no more than 12 hours from any single department; at least 15 hours at the 3000 level or higher):	
ANTH 2315, 3350, 3351, 4307, 4343, 5310, 5336	
APSM 2441, 2442, 4349	
BIOL 1402, 3304, 3350	
CHEM 1304/1114, 3371/3117	
PSYC 2351, 3360, 4320, 4321	
WGST 3380	
Track 2: Social and Cultural Emphasis (20–29 credit hours)	
ANTH 3345	
or PSYC 3382 *or* SOCI 3311	
APSM 2441	
Elective courses (13 hours for the B.A., 21 for the B.S.) chosen from the following (no more than 12 hours from any single department; at least 9 hours at the 3000 level or higher):	
ANTH 3328, 3345, 3348, 3350, 4303 , 4307, 4343, 5336	
APSM 2442, 4349	
ENGL 3379	
PHIL 3364, 3376	
PSYC 3341, 3360, 4320, 4321	
SOCI/ANTH 3301	
STAT 2331	
WGST 3310, 3380, 3382	
	35–44

Departmental Distinction

This program is open to junior and senior anthropology majors and health and society 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

1. Complete the usual coursework for a B.A. or B.S. degree with at least a 3.500 GPA in their major and with at least a 3.000 GPA overall.
2. With a grade of *B* or higher: For anthropology majors, pass ANTH 5334 and 5335 or complete a substantial independent reading program (for three credit hours that replaces one of these) on the history, conceptual foundations or methodological problems of the discipline. For health and society majors, pass ANTH 4343 or 5336.
3. With a grade of *A* or *A-*, conduct a research project (for three credit hours 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. For health and society majors, with a grade of A or A-, enroll in an Independent Study (e.g., ANTH 4391) to conduct an independent research project (may be associated with a faculty member's overarching research) that meets several requirements. See Health and Society Director or website for details.
4. Pass an oral examination of one hour in length (with at least three full-time departmental faculty members), covering the results of the research project and general issues and concepts in anthropology according to the subfield specialty. **For health and society majors**, make an oral presentation of approximately 30 minutes in length in a format approved by the supervising faculty member. See Health and Society Director or website for further details on the format options for this presentation.

Minor in Anthropology

A 15-hour minor is offered in three tracks: archaeology, cultural anthropology or general anthropology; an 18-hour track may be taken in biomedical anthropology. A grade of *C-* or better must be earned in all advanced courses taken in fulfillment of the requirements for an anthropology minor. Students must take nine credit hours of advanced coursework. Students may choose to take a topics course (ANTH 3330, 3331, 4191, 4192, 4291, 4292, 4350, 4351, 4352, 4381, 4390, 4391, 4392) in one of the subfields to count toward the minor. Students pursuing a major in anthropology may not also pursue the minor.

Requirements for the Minor	*Credit Hours*
Core Course	3
ANTH 2301	
Anthropology Tracks	12–15
Archaeology (12 credit hours)	
One from ANTH 2302, 2363, 2380	
Three from ANTH 3304, 3312–19, 3321, 3323, 3334, 3351, 3353, 3358, 3365, 3374, 3384, 3388, 3390, 3399, 4300, 4325, 4333, 4346, 4385, 4386, 5310, 5381, 5382, 5681	

Biomedical Anthropology (15 credit hours)
ANTH 3306 *or* 5336
Four from ANTH 3301, 3303, 3306, 3328, 3348, 3350, 3351, 4303, 4307, 4343, 4344, 5310, 5336
or three ANTH courses listed above and one from PHIL 3376, PSYC 3360, RELI 3366, WGST 3380

Cultural Anthropology (12 credit hours)
Two from ANTH 3301, 3303, 3306, 3310, 3319, 3328, 3329, 3333, 3336, 3344, 3345, 3348, 3350, 3361, 3366, 3368, 3385, 3388, 4303, 4304, 4305, 4307, 4309, 4343, 4344, 4346,4384, 5336, 5344
Two from ANTH 3304, 3311, 3312, 3313, 3314, 3315, 3316, 3317, 3318, 3321, 3323, 3334, 3346, 3353, 3354, 3355, 3358, 3359, 3374, 3399

General Anthropology (12 credit hours)
ANTH 3361
One course from the archaeology track (above)
One course from the cultural anthropology track (above)
One course from ANTH 2315, 3302, 3307, 3350, 3351, 4336, 4377, 5310

15–18

The Courses (ANTH)

Note: All 2000-level and 3000-level anthropology courses are open to first-year students. Undergraduate and graduate students may take 4000-level and 5000-level courses; however, undergraduate students must have introductory coursework in the appropriate subfield or permission of the department. Anthropology courses are grouped into subfields as follows.

General	ANTH 1321, 4399, 5334, 5335
Archaeology	ANTH 2302, 2363, 2380, 3304, 3312–19, 3321, 3323, 3334, 3351, 3353, 3358, 3365, 3374, 3384, 3388, 3390, 3399, 4300, 4325, 4333, 4346, 4385, 4386, 5310, 5381, 5382, 5681
Cultural/Social Anthropology	ANTH 2301, 3301, 3303, 3304, 3306, 3310–19, 3321, 3323, 3328, 3329, 3333, 3334, 3336, 3344, 3345, 3346, 3348, 3350, 3353, 3354, 3355, 3358, 3359, 3361, 3366, 3368, 3374, 3385, 3388, 3399, 4303, 4304, 4305, 4307, 4309, 4343, 4344, 4346, 4384, 5336, 5344
Anthropological Linguistics	ANTH 3361
Physical Anthropology	ANTH 2315, 3302, 3307, 3350, 3351, 4336, 4377, 5310

ANTH 1321 (3). INTRODUCTION TO ANTHROPOLOGY. Introduces the four subdisciplines of anthropology: sociocultural anthropology, linguistics, archaeology, and biological anthropology. Includes a series of hands-on learning assignments, in-class activities and discussions, and writing assignments.

ANTH 2301 (3). 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.

ANTH 2302 (3). PEOPLE OF THE EARTH: THE 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.

ANTH 2315 (3). HUMAN EVOLUTION: BIOLOGICAL AND SOCIAL BEGINNINGS OF HUMANKIND. Topics include mutation, natural selection, primate origins, and the human fossil record. Also, ethical and moral issues of cloning, eugenics, and creationism.

ANTH 2363 (3). THE SCIENCE OF OUR PAST: AN INTRODUCTION TO ARCHAEOLOGY. Covers how and why archaeologists study evidence of past human behavior. Required labs emphasize hands-on analyses of artifacts and other archaeological materials.

ANTH 2380 (3). CULTURES AT RISK: HUMAN RIGHTS AND HERITAGE TODAY. Introduces the social and political contexts of archaeological research in heritage and human rights arenas, with emphasis on ethics and the law.

ANTH 3301 (3). 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.

ANTH 3302 (3). MONKEYS AND APES: THE NONHUMAN PRIMATES. Introduces the study of nonhuman primates, from prosimians to the great apes. Explores questions of taxonomy, aspects of social behavior, and patterns of communication.

ANTH 3303 (3). SELF, CULTURE, AND MIND: INTRODUCTION TO PSYCHOLOGICAL ANTHROPOLOGY. Examines the interplay of culture, mind, and self in various Western and non-Western societies. Cognition, emotion, altered states, “brain sciences,” and mental health and illness are analyzed in a cross-cultural perspective.

ANTH 3304 (3). 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.

ANTH 3306 (3). INTRODUCTION TO MEDICAL ANTHROPOLOGY. Provides an overview of methods and topics in medical anthropology, which is an interdisciplinary field that explores health, illness, and systems of healing through holistic and cross-cultural study. Case studies from a diversity of human societies and cultures around the globe are used to challenge assumptions of student understandings. Introduces major theoretical paradigms and professional issues within the field.

ANTH 3307 (3). INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY. Introduction to the origin, evolution, and diversity of the species Homo sapiens. Students examine interactions among biology, culture and behavior, human variation and adaptation, and evidence for human evolution.

ANTH 3310 (3). GENDER AND SEX ROLES: A CROSS-CULTURAL PERSPECTIVE. Cross-cultural and historical comparison of the life experiences of women and men in the areas of family, marriage and kinship, economic and political participation, sexuality, reproduction, ritual, and religion.

ANTH 3311 (3). MEXICO: FROM CONQUEST TO CANCUN. Introduces 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.

ANTH 3312 (3). MESOAMERICAN ARCHAEOLOGY. Examines development of civilizations from village life to the great empires of Mexico. How civilizations begin, grow, change, and collapse.

ANTH 3313 (3). 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.

ANTH 3314 (3). PEOPLES OF AFRICA. A contemporary study of the cultures and social structures of sub-Saharan African peoples and an examination of the dynamics of contemporary African societies.

ANTH 3315 (3). ORIGINS OF CIVILIZATION. Considers those cultural and historic factors that led to the development of agriculture and the first urban states in Egypt and Mesopotamia.

ANTH 3316 (3). CULTURES OF THE PACIFIC ISLANDS. Survey of the Pacific Islands' social systems, focusing on Melanesia, Micronesia, and Polynesia. Explores the nature of precontact societies and the ways colonial and missionary influences transformed island cultures. Examines how contemporary Pacific Islanders are responding to forces of globalization.

ANTH 3317 (3). 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.

ANTH 3318 (3). LIFE IN THE ANCIENT 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.

ANTH 3319 (3). HUMAN ECOLOGY. Examines interactions between human populations and their environments. Explores relationships among population size, technology, climate, and behavior in various living societies.

ANTH 3321 (3). ANCIENT HAWAII. Covers the origins of traditional Hawaiian society as known through archaeology, historical documents, and oral history, as well the history of Hawaii from European contact to statehood.

ANTH 3323 (3). EAST ASIA IN MOTION. Anthropological examination of East Asia, focusing on China, Korea, and Japan. Topics include the family, economics, popular culture, and the body. Focus on processes of cultural transformation and the ways globalization, economic transformations, and political events affected change. *Prerequisite:* ANTH 2301 or instructor permission.

ANTH 3328 (3). GENDER VIOLENCE: ANTHROPOLOGICAL PERSPECTIVES. Examines how gender-based violence shapes individual subjective and collective experiences, material realities, and psychological states, as well as the impacts of interventions on intimate, interpersonal, local, and global scales.

ANTH 3329 (3). CONTESTING DEVELOPMENT: GLOBAL AND LOCAL IMPACTS AND HUMAN RIGHTS. Examines the highly variable impacts of economic development on lives and communities around the world, with a focus on human rights issues.

ANTH 3330 (3). SPECIAL TOPICS IN ANTHROPOLOGY. An in-depth look at particular problems and issues in contemporary anthropology. Topics vary. This course is repeatable under different topics.

ANTH 3331 (3). SPECIAL TOPICS IN ANTHROPOLOGY. An in-depth look at particular problems and issues in contemporary anthropology. Topics vary. This course is repeatable under different topics.

ANTH 3333 (3). THE IMMIGRANT EXPERIENCE. Explores the historical, social, cultural, and political dimensions of the U.S. immigrant experience and Americans' attitudes toward immigrants. Examines issues such as bilingual education and illegal immigration.

ANTH 3334 (3). FANTASTIC ARCHAEOLOGY AND PSEUDOSCIENCE: LOST TRIBES, SUNKEN CONTINENTS, AND ANCIENT ASTRONAUTS. Investigates various claims (e.g., ancient astronauts have visited Earth, archaeologists are not revealing secrets about the Maya calendar, and creation theory is a scientific alternative to the theory of human evolution) and how archaeologists respond to them.

ANTH 3336 (3). 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.

ANTH 3344 (3). CULTURAL ASPECTS OF BUSINESS. Explores the cultural aspects of business and entrepreneurship at home and abroad. Also, addresses the relationship between anthropology and business, examining business in a holistic context.

ANTH 3345 (3). INTRODUCTION TO ETHNOGRAPHIC METHODS. Introduces the methodological tools and approaches of ethnography. Relevant for students from a variety of disciplines. Topics include the conceptual work behind research, field site setup, research methods, data archiving and management, and ethnographic sampling. Course format includes lecture, projects, and exams.

ANTH 3346 (3). 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.

ANTH 3348 (3). HEALTH AS A HUMAN RIGHT. Examines the concept of human rights critically, with an eye for cross-cultural variation and a particular focus on health-related rights.

ANTH 3350 (3). 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.

ANTH 3351 (3). FORENSIC ANTHROPOLOGY: LESSONS TAUGHT 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.

ANTH 3353 (3). 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 on contemporary American-Indian problems and enterprises: reservation and urban life, gambling, health care, and legal rights.

ANTH 3354 (3). 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.

ANTH 3355 (3). SOCIETY AND CULTURE IN CONTEMPORARY EUROPE. Anthropological survey of social and cultural dimensions of contemporary European society. Explores unity and diversity within the region, and the role of gender, religion, class, ethnicity, and nationalism in structuring the lives of Europeans.

ANTH 3358 (3). 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 include the clash of cultures, tourism, gambling, legal rights, and urbanism.

ANTH 3359 (3). PEOPLES AND CULTURES OF THE MIDDLE EAST. This course employs 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.

ANTH 3361 (3). 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.

ANTH 3365 (3). THE RISE AND FALL OF SUPERPOWERS: THE DYNAMICS AND ETHICS OF EMPIRE. Comparative introduction to the institutions and organizational dynamics of three ancient empires (Roman, Chinese, Incan), with discussions of the lessons that these civilizations can teach Americans about their society.

ANTH 3366 (3). 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.

ANTH 3368 (3). GLOBAL URBANISM: IMPLOSIONS/EXPLOSIONS. An introduction to urban life and culture around the world, including how to study cities, who inhabits cities, and the special features of city places and spaces.

ANTH 3374 (3). CULTURES AND ENVIRONMENTS OF THE SOUTHWEST. Patterns of land and resource use in prehistoric and early historic times in the Southwest. The focus is on the mutual influence of cultures and resources in the northern Rio Grande region.

ANTH 3384 (3). 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 during the last 50,000 years.

ANTH 3385 (3). SUSTAINABLE LIVING. Focuses on environmental challenges facing society and strategies for achieving a more sustainable existence.

ANTH 3388 (3). 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.

ANTH 3390 (3). THE PLUNDERED PAST: ARCHAEOLOGY'S CHALLENGES IN THE MODERN WORLD. Provides 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.

ANTH 3399 (3). IN SEARCH OF ICE AGE AMERICANS. The peopling of America during the Ice Age, reconstructed by various disciplines (e.g., archaeology, linguistics, and molecular biology), and what that reconstruction reveals about how people adapted to a truly new world.

ANTH 4091 (0). UNDERGRADUATE RESEARCH.

ANTH 4191 (1). INDEPENDENT STUDY AND RESEARCH. For advanced undergraduates. *Prerequisite:* Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4192 (1). INDEPENDENT STUDY AND RESEARCH. For advanced undergraduates. *Prerequisite:* Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4291 (2). INDEPENDENT STUDY AND RESEARCH. For advanced undergraduates. *Prerequisite:* Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4292 (2). INDEPENDENT STUDY AND RESEARCH. For advanced undergraduates. *Prerequisite:* Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4300 (3). 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.

ANTH 4303 (3). POLITICAL ECONOMY OF HEALTH. 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 3301, 3306 or approval of instructor.

ANTH 4304 (3). MIGRATION, ETHNICITY, AND NATIONALISM. Examines three interrelated topics: migration, ethnicity, and nationalism. Focuses on major theoretical positions and on specific ethnographic cases. *Prerequisite:* 18 hours of anthropology or permission of the instructor for nonanthropology majors.

ANTH 4305 (3). APPLIED ANTHROPOLOGY. The application of anthropological theories and methods to problems in contemporary societies, including global business, community development, health care issues, agricultural and environmental programs, urban planning, tourism projects, and education policy. *Prerequisites:* Advanced standing and ANTH 2301 (or permission of instructor for nonanthropology majors).

ANTH 4307 (3). GLOBAL AND PUBLIC HEALTH. Provides an overview of issues in international health, with a focus on contributions of anthropology and anthropologists to international public health issues. *Prerequisites:* ANTH 3301, 3306 or approval of instructor.

ANTH 4309 (3). HUMAN RIGHTS, INDIGENOUS PEOPLES, AND NATION STATES. An examination of human rights issues among contemporary indigenous peoples, especially the impact on their cultures and societies from governmental and nongovernmental organizations, large-scale development programs, and global tourism.

ANTH 4325 (3). INTRODUCTION TO OSTEOLOGY I: HUMAN–ANIMAL INTERACTIONS. Explores the evolution of human and animal interactions through a comparative study and analysis of their skeletons. Examines variations in nature's grand design, including the origins of different skeletal features, the evolution of these features over time, and the ways humans influenced the development of many of these features through processes such as targeted hunting and selective breeding. Introduces the science of taphonomy in hands-on learning labs. Students learn how isotopic and biomolecular analyses of animal skeletal remains help in understanding human–animal interactions.

ANTH 4333 (3). LABORATORY METHODS IN ARCHAEOLOGY. Classification and analysis of archaeological materials (various topics). *Prerequisites:* Advanced standing and ANTH 5381, 5382, 5681, or 5981, or approval of instructor.

ANTH 4336 (3). CONCEPTS OF EVOLUTION: A HISTORY. Using original writings, interpretive texts, and biographies, this course examines the rise of evolutionary ideas from ancient times through the 20th century.

ANTH 4343 (3). BIOMEDICINE, CULTURE, AND POWER. Examines the epistemology and history of biomedicine, medical bureaucracy, professionalism, medical education, alternative and popular medicine, economics, and health care. *Prerequisites:* ANTH 3301, 3306 or approval of instructor.

ANTH 4344 (3). GLOBAL POPULATION PROCESSES: ANTHROPOLOGICAL PERSPECTIVES. Focuses on an anthropological understanding of population processes (nuptiality, fertility, mortality, migration) and examines them within historical and cross-cultural frameworks. *Prerequisite:* 18 hours of anthropology (or permission of instructor for nonanthropology majors).

ANTH 4346 (3). ENVIRONMENTAL ANTHROPOLOGY AND DEVELOPMENT. Analyzes the processes of globalization from the perspective of environmental anthropology and development. *Prerequisite:* ANTH 2301.

ANTH 4350 (3). SPECIAL TOPICS IN ANTHROPOLOGY. An in-depth look at particular problems and issues in contemporary anthropology. Topics will vary.

ANTH 4351 (3). SPECIAL TOPICS IN ANTHROPOLOGY. An in-depth look at particular problems and issues in contemporary anthropology. Topics will vary.

ANTH 4352 (3). SPECIAL TOPICS IN ANTHROPOLOGY. An in-depth look at particular problems and issues in contemporary anthropology. Topics will vary.

ANTH 4377 (3). 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.

ANTH 4381 (3). INTERNSHIP IN ANTHROPOLOGY. Offers experience in varied organizations and agencies where anthropological applications are relevant (e.g., contract archaeology firms, natural history museums, zoos, health clinics, marketing or public relations firms, and corporations involved in international business). *Prerequisite:* Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4384 (3). 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).

ANTH 4385 (3). PACIFIC ISLAND ARCHAEOLOGY. Seminar on the use of coastlines, oceans, rivers, marshes, lakes, and islands throughout human history. *Prerequisite:* ANTH 2302 or 2363, or permission of instructor.

ANTH 4386 (3). THE ARCHAEOLOGY OF GENDER AND SEXUALITY. Explores how and why archaeologists study gender and sexual identities of the past and how they detect the diversity in these institutions across culture through time.

ANTH 4390 (3). CURRENT ISSUES IN ANTHROPOLOGY. Seminar on selected anthropological topics.

ANTH 4391 (3). INDEPENDENT STUDY AND RESEARCH. For advanced undergraduates. The department also offers 1- and 2-hour alternatives. *Prerequisite:* Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4392 (3). INDEPENDENT STUDY AND RESEARCH. For advanced undergraduates. The department also offers 1- and 2-hour alternatives. *Prerequisite:* Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4399 (3). INTEGRATED THEMES IN ANTHROPOLOGY. Integrates the different domains in anthropology for an in-depth examination of central problems or theoretical per-

spectives in anthropology. This is the capstone course in anthropology and is recommended for juniors and seniors in the major.

ANTH 5310 (3). 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.

ANTH 5334 (3). HISTORY OF ANTHROPOLOGY, PART ONE. Analytical history of anthropology from the Classical period to the 20th century. Explains the content and development of theory, method, and interpretation.

ANTH 5335 (3). HISTORY OF ANTHROPOLOGY, PART TWO. Traces the theoretical developments in ethnology and archaeology from 1960 to the present, with intense readings and a focus on the potential utility of theoretical coherence in the discipline.

ANTH 5336 (3). HEALTH IN CROSS-CULTURAL PERSPECTIVE. Cross-cultural study of the cultural construction and social organization of medical systems in preindustrial and industrialized societies, including the political economy of health, ethnomedicine, international health, ethnopharmacology, and bioethics. *Prerequisites:* ANTH 3301, 3306 or approval of instructor.

ANTH 5344 (3). RESEARCH METHODS IN ETHNOLOGY. Examination of methodologies and techniques appropriate for different types of ethnological research.

ANTH 5381 (3). FIELD METHODS IN ARCHAEOLOGY. Methods of excavation, recording, and interpretation used in archaeological research. Students may petition to have this course fulfill the lab science requirement. (Fort Burgwin Research Center)

ANTH 5382 (3). FIELD METHODS IN ARCHAEOLOGY. Methods of excavation, recording, and interpretation used in archaeological research. Students may petition to have this course fulfill the lab science requirement. (Fort Burgwin Research Center)

ANTH 5681 (6). 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)

ANTH 5981 (9). 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)

BIOLOGICAL SCIENCES

www.smu.edu/biology

Professor Santosh R. D'Mello, **Department Chair**

Professors: Santosh R. D'Mello, Richard Jones, Paul Ludden, William Orr, Steven Vik, Pia Vogel. **Associate Professors:** Robert Harrod, John Wise. **Assistant Professors:** A. Phillip West. **Senior Lecturers:** Eva Oberdörster, Teresa Strecker. **Lecturer:** Laura Ciaccia West. **Research Associate Professor:** Svetlana Radyuk.

Bachelor of Science With a Major in Biological Sciences

This degree program is designed for students who plan careers in the biological sciences or further study in graduate or professional schools. Although statistics is used extensively in biological research, preprofessional students should be aware that certain medical schools also require a full year of calculus.

Requirements for the Major	*Credit Hours*
Biological Sciences (minimum of 10 courses)	34
BIOL 1401, 1402 BIOL 3304, 3350 At least 20 hours of advanced BIOL courses, with at least two courses with labs and at least one course at the 4000 or 5000 level	
Chemistry	16
General Chemistry 1 and 2 with labs Organic Chemistry 1 and 2 with labs	
Mathematics	6
MATH 1337 MATH 1338 *or* STAT 2331 *or* 5371	
Physics	8
General Physics 1 and 2 with labs	
	64

Bachelor of Science With a Major in Biological Sciences and Master of Science in Molecular and Cell Biology

The primary goal of the combined B.S.-M.S. degree is to encourage and better prepare undergraduates for careers in biological research. The accelerated program permits students to complete the requirements for the B.S. degree in biological sciences and the requirements for the M.S. degree in molecular and cell biology in a total of five years. Students need to complete most corequisites and University Curriculum requirements in a timely fashion, preferably by the end of their junior year. The calculus and/or statistics corequirement should be completed by the end of the sophomore year. All chemistry and physics corequirements should be completed by the end of the junior year. Most advanced biology electives, including the biological chemistry course BIOL 5310, also should be completed by the end of the junior year because the senior year will be largely filled with 6000-level biology classes. In addition, students are expected to be engaged in full-time research in the lab of a faculty member during summers following their sophomore, junior and senior years, and to continue their research throughout the academic year. During the academic year,

students may receive course credit for their research (BIOL 2101, 2102 Introductory Research I, II and/or BIOL 3398, 3399 Undergraduate Research I, II. Requirements for the M.S. portion of the B.S.-M.S. degree will be the same as for the standard M.S. degree in molecular and cellular biology.

During the fifth year, students will continue taking graduate courses and complete the research portion of the M.S. degree. By the end of the fifth year, students will write a monograph describing their research and give an oral presentation to the department.

Admission. In coordination with a faculty member, students should apply to the Biology Graduate Committee for admission into the B.S.-M.S. program in the spring of their sophomore year. Later admission to the program may be considered, but students must be on track to complete course requirements, as described above. A research mentor must be identified, and a minimum 3.200 GPA in science courses is required. To remain in the program, students will need to maintain a minimum 3.000 GPA in science courses and exhibit satisfactory progress in their lab work.

Bachelor of Arts With a Major in Biological Sciences

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 prehealth adviser about additional science requirements.

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 Major	*Credit Hours*
Biological Sciences (minimum of eight courses)	26
BIOL 1401, 1402 BIOL 3304, 3350 At least 12 hours of advanced BIOL courses, with at least two courses with labs and at least one course at the 4000 or 5000 level	
Chemistry	12
General Chemistry 1 and 2 with labs Organic Chemistry 1 with lab	
	38

Departmental Distinction

A biological sciences major with sufficiently high academic standing may graduate with departmental distinction by successfully completing a special program of study that includes advanced coursework, 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. At the time of the application, the student must have begun a research project with a departmental faculty member, and 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 3.500 and an overall GPA of at least 3.500. For students who have transferred to SMU, two grade point averages will be calculated: one for all work attempted and one for work com-

pleted 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, and continue to work on the distinction research project. Upon completion of this course with a grade of *B+* or better, the student has the option to enroll in BIOL 4399 (pass/fail). On the basis of this research project, an oral presentation will be made to the faculty, and a senior thesis or review article will be written. In addition, three 4000- or 5000-level courses must be completed: one from BIOL 4319, 4325, 4331, 4370, 4460 and at least two from BIOL 5304, 5305, 5310, 5311, 5312, 5325, 5340. Completion of these requirements and maintenance of a 3.500 GPA for all biological sciences courses attempted will determine if the B.S. degree will be awarded with departmental distinction.

Minor in Biological Sciences

Students majoring in other departments may obtain a minor in biological sciences. All advanced courses must be completed through enrollment at SMU. A student may not earn minors in both biology and the natural sciences, or a minor or a major in both biology and environmental science.

Requirements for the Minor	*Credit Hours*
Biological Sciences	17
BIOL 1401, 1402 BIOL 3304, 3350 At least 3 hours of advanced BIOL courses, including an advanced lab course	
Chemistry	8
General Chemistry 1 and 2 with labs	
	25

The Courses (BIOL)

Courses for Nonscience Majors. BIOL 1303, 1305, 1308 and 1310 are designed to satisfy the Universitywide 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 Universitywide requirements.

Courses for Biology Majors. 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.

Special Courses. BIOL 2101, 2102, 3395, 3398, 3399, 4398 and 4399 are research courses. BIOL 1305, 1308, 1310, 3343, 3347, 3354, 5358 and 5359 are SMU-in-Taos courses.

BIOL 1303 (3). ESSENTIALS OF BIOLOGY. An introduction to the major concepts of biological thought for the nonscience major. Includes one laboratory session each week. BIOL 1303 is not open to students who have earned prior credit in BIOL 1401.

BIOL 1305 (3). THE NATURAL ENVIRONMENT. An introduction to major environments and their resident populations for the nonscience major. Includes the equivalent of one laboratory

session each week. BIOL 1305 is not open to students with prior credit in BIOL 1402. (SMU-in-Taos)

BIOL 1308 (3). PLANT BIOLOGY. An introduction to the economic, social, and industrial aspects of plant substances and material for the nonscience major. Includes the equivalent of one laboratory session each week. BIOL 1308 is not open to students who have prior credit in BIOL 1402. (SMU-in-Taos)

BIOL 1310 (3). AQUATIC BIOLOGY. For the nonscience major. Introduces the biology of the lakes and streams of the Southern Rocky Mountains. Lectures and labs are conducted at Fort Burgwin, New Mexico. BIOL 1310 is not open to students who have prior credit in BIOL 1402. (SMU-in-Taos)

BIOL 1401 (4). INTRODUCTORY BIOLOGY. Introduction to the study of living organisms: ecology, evolution, diversity, and physiology. Includes 3 hours of lecture and one 3-hour laboratory each week. BIOL 1401, 1402 are prerequisites for all advanced courses in biological sciences.

BIOL 1402 (4). INTRODUCTORY BIOLOGY. Introduction to the study of living organisms: ecology, evolution, diversity, and physiology. Includes 3 hours of lecture and one 3-hour laboratory each week. BIOL 1401, 1402 are prerequisites for all advanced courses in biological sciences.

BIOL 2099 (0). INTERNSHIP. Laboratory or fieldwork in biology at an on- or off-campus location. Pass/fail only. No tuition. *Prerequisite:* Departmental approval required.

BIOL 2101 (1). INTRODUCTORY RESEARCH I. A minimum of 5 hours per week doing supervised laboratory research. Offered on a pass/fail basis only. *Prerequisites:* At least sophomore standing, BIOL 1401 and 1402, and consent of instructor.

BIOL 2102 (1). INTRODUCTORY RESEARCH II. A minimum of 5 hours per week doing supervised laboratory research. Offered on a pass/fail basis only. *Prerequisites:* BIOL 2101 and consent of instructor.

BIOL 3100 (1). SPECIAL TOPICS ABROAD. Courses offered in SMU-approved international programs. May be repeated for credit under a different subtitle. A maximum of 6 hours of special topics abroad 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.

BIOL 3200 (2). SPECIAL TOPICS ABROAD. Courses offered in SMU-approved international programs. May be repeated for credit under a different subtitle. A maximum of 6 hours of special topics abroad 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.

BIOL 3222 (2). MOLECULAR GENETICS LABORATORY. Students 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.

BIOL 3300 (3). SPECIAL TOPICS ABROAD. Courses offered in SMU-approved international programs. May be repeated for credit under a different subtitle. A maximum of 6 hours of special topics abroad 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.

BIOL 3303 (3). 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. Includes 3 hours of lecture each week. *Prerequisites:* BIOL 1401 and C- or better in BIOL 3304.

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

BIOL 3305 (3). LIMNOLOGY: AQUATIC BIOLOGY. The study of inland waters, integrating chemistry, physics, and biology. Emphasis is on identifying organisms and studying their interactions with the environment. Includes 2 hours of lecture and one 3-hour laboratory each week. *Prerequisites:* BIOL 1401, 1402; CHEM 1303.

BIOL 3306 (3). PHYSIOLOGY. Homeostatic control mechanisms in vertebrates. Includes 3 hours of lecture each week. *Prerequisites:* C- or better in BIOL 3304, 3350.

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

BIOL 3308 (3). 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. *Prerequisites:* BIOL 1401, 1402; CHEM 1303, 1113. (SMU-in-Copenhagen only)

BIOL 3309 (3). 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, survival strategies, and survival adaptations of the most important organisms. *Prerequisites:* BIOL 1401, 1402; CHEM 1303, 1113. (SMU-in-Copenhagen only)

BIOL 3310 (3). ECOLOGY AND HUMAN IMPACT IN THE NORTH AND BALTIC SEAS. Marine ecosystems and communities, and 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. *Prerequisites:* BIOL 1401, 1402; CHEM 1303, 1113. (SMU-in-Copenhagen only)

BIOL 3311 (3). 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. *Prerequisites:* BIOL 3307 and at least one college-level course in Spanish. (SMU-in-Costa Rica only)

BIOL 3312 (3). 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. *Prerequisite:* BIOL 3307. (SMU-in-Kenya only)

BIOL 3323 (3). BIOLOGY OF THE BRAIN. Reviews the basic functioning of the brain and provides a deeper understanding of how people interact with their surrounding environment. *Prerequisites:* BIOL 1401, 1402. Recommended: BIOL 3222.

BIOL 3342 (3). PLANT KINGDOM. A survey of the plant kingdom, emphasizing life histories and developmental morphology. Includes 2 hours of lecture and one 3-hour laboratory each week. *Prerequisites:* BIOL 1401, 1402.

BIOL 3343 (3). FIELD BOTANY. Identification of vascular plants, with emphasis on ecological indicators. Lectures and laboratories conducted at Fort Burgwin, New Mexico, site of SMU-in-Taos. *Prerequisites:* BIOL 1401, 1402.

BIOL 3347 (3). SYSTEMATIC BOTANY. An introduction to the history, nomenclature, family characteristics, identification, and biosystematics of the flowering plants. Lecture and laboratory work conducted at Fort Burgwin, New Mexico. *Prerequisites:* BIOL 1401, 1402.

BIOL 3350 (3). CELL BIOLOGY. The structure and function of cells. Includes 3 hours of lecture each week. *Prerequisites:* BIOL 1401, 1402. *Prerequisite or corequisite:* CHEM 1304.

BIOL 3354 (3). PARASITOLOGY. Comparative study of protozoa and helminthic parasitic organisms, and their role in diseases. Includes 2 hours of lecture and one 3-hour laboratory each week. *Prerequisites:* BIOL 1401, 1402.

BIOL 3357 (3). BIOLOGY OF INVERTEBRATES. A general survey of the invertebrates, with emphasis on identification of local species, morphological adaptations, systematics, and ecology. Includes 2 hours of lecture and one 3-hour laboratory each week. *Prerequisites:* BIOL 1401, 1402.

BIOL 3365 (3). 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.

BIOL 3369 (3). PALEOBIOLOGY. A survey of biological diversity, phylogenetic analysis, rates of evolution, extinction, biogeography, taphonomy, and paleoecology. *Prerequisites:* BIOL 1401, 1402 or one 1300-level course in Earth sciences.

BIOL 3379 (3). SURVEY OF PLANT AND MICROBIAL BIOCHEMISTRY. Introduces the diversity in plants and microbes. Considers their roles in global carbon nitrogen and energy cycles. *Prerequisites:* BIOL 1401, 1402 and CHEM 1303, 1304.

BIOL 3395 (3). INTERNSHIP IN BIOLOGY. Biological research at an institution other than SMU. Credit does not apply toward the degree requirement for two laboratory classes. A student may not take both BIOL 3395 and 3398 for a letter grade. Prior departmental approval required. *Prerequisites:* BIOL 3304, 3350.

BIOL 3398 (3). 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. A student may not earn credit in both BIOL 3395 and 3398. *Prerequisites:* Junior standing, and approval of faculty sponsor and the Undergraduate Studies Committee of the department.

BIOL 3399 (3). UNDERGRADUATE RESEARCH II. Pass/fail only. 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.

BIOL 3403 (4). MICROBIOLOGY. The biology of microorganisms, with an emphasis on diversity, disease, and the environment. Includes 3 hours of lecture and one 3-hour laboratory each week. Recommended: CHEM 3371, 3117. *Prerequisites:* BIOL 1401, 1402 and C- or better in BIOL 3304.

BIOL 4119 (1). IMMUNOBIOLOGY LABORATORY. Provides experience in experimental techniques and strategies used in immunobiology labs, including cell culture, quantitative plate-based assays, and fluorescence-activated cell sorting. Two 3-hour labs each week for half a term. *Prerequisites:* BIOL 3304, 3350.

BIOL 4132 (1). SENIOR SEMINAR. Discussion of current problems of biological interest, 1 hour each week. *Prerequisites:* Senior standing; major in biology.

BIOL 4160 (1). TOXICOLOGY LABORATORY. Modern biochemical and molecular techniques are 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.

BIOL 4306 (3). HUMAN PHYSIOLOGY. Explores human physiology, with an emphasis on cellular mechanisms that influence organ system functions. Also covers abnormal physiology (pathology), where appropriate, as part of clinical case study presentations. *Prerequisites:* C- or better in BIOL 3304, 3350; CHEM 1113, 1114, 1303, 1304.

BIOL 4319 (3). IMMUNOBIOLOGY. Introduction to fundamental concepts of the immune system. *Prerequisites:* BIOL 3304, 3350.

BIOL 4322 (3). MOLECULAR BIOLOGY OF EUKARYOTES. Structure and function of eukaryotic chromosomes as mediators of gene expression during growth, differentiation, and oncogenesis. A student cannot have previously completed BIOL 5304. *Prerequisites:* BIOL 3304, CHEM 3372, and junior standing.

BIOL 4325 (3). THE BIOLOGY OF AGING. Explores the current understanding of the mechanisms of aging and the ways these insights are used in efforts to extend life and combat diseases associated with old age. *Prerequisites:* BIOL 3304, 3350 and consent of instructor.

BIOL 4331 (3). DEVELOPMENTAL BIOLOGY. Developmental processes in animals. Includes 3 hours of lecture each week. *Prerequisites:* BIOL 1401, 1402 and C- or better in BIOL 3304.

BIOL 4360 (3). 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. Includes 3 hours of lecture per week. *Prerequisites:* C- or better in BIOL 3304, 3350; CHEM 3371, 3372.

BIOL 4370 (3). 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.

BIOL 4390 (3). CURRENT TOPICS IN BIOLOGY. Explores the current understanding of the mechanisms of aging and the ways these insights are used in efforts to extend life span and to combat diseases associated with old age. Includes lectures and presentations on the biology of aging that are based on the primary and secondary literature. *Prerequisites:* Junior standing, strong background in genetics and cell biology, and permission of instructor.

BIOL 4398 (3). HONORS RESEARCH I. For students in the departmental distinction program. *Prerequisites:* BIOL 1401, 1402; admission to departmental distinction program.

BIOL 4399 (3). HONORS RESEARCH II. For students in the departmental distinction program. *Prerequisite:* B+ or better in BIOL 4398.

BIOL 4460 (4). ENVIRONMENTAL AND HUMAN TOXICOLOGY WITH LAB. Introduction to environmental toxicology, with a focus on fate, biotransformation, and the biochemical and physiological impacts of pollutants on humans and wildlife. Includes 3 hours of lecture and one 3-hour laboratory per week. *Prerequisites:* C- or better in BIOL 3304, 3350; CHEM 3371, 3372.

BIOL 5102 (1). STRUCTURAL BIOLOGY SEMINAR. Readings and discussions of the period 1933–1963 when structural molecular biology emerged. Readings include original research articles and historical reviews. *Prerequisite:* BIOL/CHEM 5310 or consent of instructor.

BIOL 5110 (1). BIOLOGICAL CHEMISTRY LABORATORY. Two 3-hour labs each week for half a term. *Prerequisites:* BIOL 1401, 1402. *Prerequisite or corequisite:* BIOL/CHEM 5310. If CHEM 5110 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

BIOL 5166 (1). VERTEBRATE ANATOMY LABORATORY. A laboratory course to accompany BIOL/GEOL 5366. Exercises include basic anatomy, dissections, and examinations of fossil skeletons. *Corequisite:* BIOL/GEOL 5366.

BIOL 5304 (3). 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.

BIOL 5305 (3). 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.

BIOL 5310 (3). BIOLOGICAL CHEMISTRY: MACROMOLECULAR STRUCTURE AND FUNCTION. Introduces the structure and function of macromolecules of biological importance, with a focus on nucleic acid and protein structure, enzyme kinetics, and carbohydrate and lipid chemistry. Includes 3 hours of lecture each week. The accompanying laboratory (BIOL 5110) is strongly recommended for biology majors. If CHEM 5310 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor. *Prerequisites:* C- or better in CHEM 3371, 3372 and junior standing.

BIOL 5311 (3). BIOLOGICAL CHEMISTRY: METABOLISM. Introduction to the pathways and regulatory events in the metabolism of carbohydrates, lipids, amino acids, and nucleotides. Includes 3 hours of lecture each week. *Prerequisites:* CHEM 3371, 3372. If CHEM 5311 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

BIOL 5312 (3). PHYSICAL BIOCHEMISTRY. Physical chemistry of macromolecules and biological membranes, with an emphasis on the thermodynamics of solutions. *Prerequisites:* BIOL 1401, 1402; MATH 1338 or the equivalent; CHEM 3372; CHEM/BIOL 5310. Recommended: CHEM 5381 or 5383. If CHEM 5312 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

BIOL 5325 (3). 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.

BIOL 5340 (3). MOLECULAR BASIS OF BRAIN DEVELOPMENT AND DEGENERATION. Covers the molecular biology of brain development and degeneration. Interactive course that includes lectures and student presentations of publications describing important research findings related to neurodevelopment and neurodegeneration. Recommended: BIOL 3323. *Prerequisites:* BIOL 1402, 3304, 3350.

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

BIOL 5359 (3). HOST-PARASITE RELATIONSHIPS. Analysis of host-parasite relations from an evolutionary and ecological viewpoint. Lectures and laboratories conducted at Fort Burgwin in New Mexico. *Prerequisite:* BIOL 3354. (SMU-in-Taos)

BIOL 5366 (3). 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. The accompanying laboratory is a corequisite for biology majors and strongly recommended for all other students. *Prerequisites:* BIOL 1401, 1402 or GEOL 1308. *Corequisite:* BIOL 5166.

CHEMISTRY

www.smu.edu/chemistry

Professor Elfi Kraka, **Department Chair**

Professors: Edward Biehl, John Buynak, Dieter Crèmer, Werner Horsthemke, Elfi Kraka, Michael Lattman, Mark Schell, David Son, Patty Wisian-Neilson. **Assistant Professors:** Isaac Garcia-Bosch, Alexander Lippert, Peng Tao, Nicolay Tsarevsky, Brian Zoltowski. **Professor of Practice:** Jennifer O'Brien. **Senior Lecturers:** Andrea Adams, Helen Babbili.

General Information

Chemistry plays a key role in solving economic, environmental and societal problems that are intimately connected with the basic question of how to guarantee the sustainability of the earth. The Department of Chemistry prepares students to meet the increasing demand for a scientifically trained workforce. Students planning careers in industry, medicine or academia benefit from the comprehensive curriculum of the B.S. and B.A. programs in chemistry. Undergraduate majors are heavily involved in research, working in teams with faculty, postdoctoral fellows and graduate students. Graduates have been accepted into the leading graduate and professional schools in the nation. On average, two-thirds of chemistry graduates seek advanced degrees; other graduates choose employment in industry and research.

Bachelor of Science With a Major in Chemistry

The B.S. degree requires the completion of a minimum of 44 hours in the department. This degree is certified by the American Chemical Society for professional training in chemistry.

Requirements for the Major	*Credit Hours*
Core Courses	41
CHEM 1303/1113, 1304/1114, 3351, 3371/3117, 3372/3118, 4397, 5185, 5188, 5310, 5383, 5384, 5392/5192, 5486	
Mathematics and Physics	17
MATH 1337, 1338, 2339 PHYS 1105, 1106, 1303 *or* 1307, 1304 *or* 1308	
Advanced Chemistry Elective (chosen with adviser's approval)	3
CHEM 53XX	
	61

Bachelor of Arts With a Major in Chemistry

The B.A. degree requires the completion of a minimum of 26 hours in the department. This degree is not certified by the American Chemical Society. **Note:** Organic chemistry courses taken elsewhere do not count as advanced resident hours toward the degree.

Requirements for the Major	*Credit Hours*
Core Courses	19
CHEM 1303/1113, 1304/1114, 3371/3117, 3372/3118, 5381 or 5383	

Requirements for the Major (continued)	*Credit Hours*
Mathematics and Physics	14
MATH 1337 MATH 1338 *or* STAT 2301 *or* 2331 PHYS 1105, 1106, 1303 or 1307, 1304 or 1308	
Advanced Chemistry Electives (chosen with adviser's approval)	7
CHEM 3351, 53XX, 53YY, 51ZZ	
	40

Departmental Distinction

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 3.500 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 completion of all degree requirements, approval of the departmental faculty at the completion of these requirements, and provided the student maintains a minimum 3.500 GPA in all chemistry courses, the student will graduate with departmental distinction in chemistry.

Minor in Chemistry

Students majoring in other departments may obtain a minor in chemistry. At least two of the advanced courses must be taken at SMU.

Requirements for the Minor	*Credit Hours*
Core Courses	8
CHEM 1303/1113, 1304/1114	
Advanced Chemistry Electives (chosen with adviser's approval)	9–12
Three advanced 3- or 4-hour CHEM courses	
	17–20

The Courses (CHEM)

CHEM 1113 (1). GENERAL CHEMISTRY LABORATORY. One 3-hour laboratory period each week. *Prerequisite or corequisite:* CHEM 1303. Withdrawal from CHEM 1113 requires withdrawal from CHEM 1303.

CHEM 1114 (1). GENERAL CHEMISTRY LABORATORY. One 3-hour laboratory period each week. *Prerequisite:* CHEM 1113. *Prerequisite or corequisite:* CHEM 1304.

CHEM 1301 (3). CHEMISTRY FOR LIBERAL ARTS. Designed for students with weak backgrounds in chemistry and for liberal arts students.

CHEM 1302 (3). PREPARATORY CHEMISTRY. For students desiring to strengthen their background in chemistry prior to enrolling in the general chemistry course CHEM 1303.

CHEM 1303 (3). GENERAL CHEMISTRY. Primarily for science majors, premed students, and engineering students. Introduces 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. *Prerequisite* to all advanced courses in the department. Withdrawal from CHEM 1303, 1304 requires withdrawal from corresponding labs.

CHEM 1304 (3). GENERAL CHEMISTRY. Primarily for science majors, premed students, and engineering students. Introduces 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. *Prerequisite* to all advanced courses in the department. Withdrawal from CHEM 1303, 1304 requires withdrawal from corresponding labs. *Prerequisites:* CHEM 1303, 1113.

CHEM 3117 (1). ORGANIC CHEMISTRY LABORATORY. One 3-hour laboratory period each week. *Prerequisite or corequisite:* CHEM 3371.

CHEM 3118 (1). ORGANIC CHEMISTRY LABORATORY. One 3-hour laboratory period each week. *Prerequisite or corequisite:* CHEM 3372. *Prerequisite:* CHEM 3117.

CHEM 3351 (3). QUANTITATIVE ANALYSIS. Involves the theory and practice of quantitative analytical chemistry techniques, including gravimetric, volumetric, electrochemical, and spectroscopic analyses. Includes 3 hours of lecture and two 4 hour laboratory periods per week for one-half term. *Prerequisites:* CHEM 1303, 1304, 1113, 1114.

CHEM 3371 (3). 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.

CHEM 3372 (3). ORGANIC CHEMISTRY. For chemistry majors and students interested in health-related professions. Emphasizes spectroscopy and the chemistry of functional groups. *Prerequisites:* C- or higher in CHEM 3371, 3117. *Corequisite:* CHEM 3118.

CHEM 4000 (0). RESEARCH. For students who hold research fellowships but are not enrolled in any credit hour courses. No tuition.

CHEM 4397 (3). UNDERGRADUATE RESEARCH. *Prerequisites:* Junior or senior classification and permission of the instructor.

CHEM 5110 (1). 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.

CHEM 5185 (1). LABORATORY METHODS IN PHYSICAL CHEMISTRY. Laboratory experiments with emphasis on thermodynamics, chemical kinetics, and physical biochemistry. Includes a half-hour of lecture and 5 hour laboratory period each week for 5 weeks. *Prerequisite:* CHEM 5381 or 5383.

CHEM 5188 (1). ADVANCED PHYSICAL CHEMISTRY LABORATORY. Laboratory experiments with emphasis on chemical kinetics and molecular spectroscopy. Includes a half-hour of lecture and 5 hour laboratory period each week for 5 weeks. *Prerequisite:* CHEM 5185. *Corequisite:* CHEM 5384 or permission of instructor.

CHEM 5192 (1). INORGANIC SYNTHESIS LABORATORY. Introduces advanced techniques and methods used in the synthesis of inorganic compounds. *Prerequisite or corequisite:* CHEM 5392.

CHEM 5306 (3). INTRODUCTION TO COMPUTATIONAL CHEMISTRY. Besides the normal lab experiments, modern chemists and biochemists perform "experiments" on the computer by calculating the outcome of chemical and/or biochemical reactions. Introduces this new field in a hands-on fashion, and uses major quantum chemical packages. *Prerequisites:* CHEM 1303, 1304 or permission of instructor. Note: Class assignments and projects are completed in the computer lab outside of the regularly scheduled class times.

CHEM 5308 (3). 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.

CHEM 5310 (3). BIOLOGICAL CHEMISTRY: MACROMOLECULAR STRUCTURE AND FUNCTION. Introduces the structure and function of macromolecules of biological importance, with a focus on nucleic acid and protein structure, enzyme kinetics, and carbohydrate and lipid chemistry. Includes 3 hours of lecture each week. The accompanying laboratory (CHEM 5110) is strongly recommended for chemistry majors. If CHEM 5310 is counted toward a chemistry

major or minor, it cannot be counted toward a biological sciences major or minor. *Prerequisites:* C- or better in CHEM 3371, 3372 and junior standing.

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

CHEM 5312 (3). PHYSICAL BIOCHEMISTRY. Physical chemistry of macromolecules and biological membranes, with an emphasis on the thermodynamics of solutions. *Prerequisites:* MATH 1338; CHEM 3372, 5310. (CHEM 5381 or 5383 is recommended.)

CHEM 5317 (3). INTRODUCTION TO MOLECULAR MODELING AND COMPUTER-ASSISTED DRUG DESIGN. Presents a thorough and in-depth overview of methods and techniques in computer-assisted drug design. Topics include drug discovery and drug design, molecular recognition and docking, ligand-receptor interactions, pharmacophore searching, virtual screening, de novo design, molecular graphics, and chemometrics. *Prerequisites:* CHEM 1303, 1304 or permission of instructor. Note: Class assignments and projects are completed in the computer lab outside of the regularly scheduled class times.

CHEM 5321 (3). UNDERSTANDING CHEMISTRY. 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 permission of instructor.

CHEM 5322 (3). INTRODUCTION TO NANOTECHNOLOGY. Introduces nanotechnology, which is expected to change lives and society more than computer technology and electricity have done together. Discusses nanomaterials and their applications. *Prerequisites:* CHEM 1303, 1304 or permission of instructor.

CHEM 5333 (3). 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 and 3372.

CHEM 5344 (3). PHYSICAL CHEMISTRY OF PROTEINS. Graduate-level course on the fundamental aspects of techniques used to interrogate the thermodynamics and kinetics of protein conformational changes, with emphasis on atomic resolution structural techniques. *Prerequisites:* CHEM 5383 and 5384, knowledge of basic biochemistry, and instructor approval.

CHEM 5383 (3). PHYSICAL CHEMISTRY I. Gas laws; kinetic molecular theory; introduction to thermodynamics, with applications to phase transitions and chemical equilibrium; chemical kinetics. *Prerequisites:* CHEM 1114 and 1304, PHYS 1105 and 1304 or 1308, and MATH 1337, or permission of instructor.

CHEM 5384 (3). 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.

CHEM 5392 (3). ADVANCED INORGANIC CHEMISTRY. Survey of the bonding, structure, and reactivity of inorganic compounds. Also, coordination, organometallic, and main group element chemistry. Includes 3 hours of lecture each week. Recommended: CHEM 5384.

CHEM 5393 (3). ADVANCED ORGANIC CHEMISTRY. Includes 3 hours of lecture each week. *Prerequisite:* CHEM 3372.

CHEM 5396 (3). ADVANCED PHYSICAL CHEMISTRY. Includes 3 hours of lecture each week. *Prerequisite:* Permission of instructor.

CHEM 5398 (3). MEDICINAL CHEMISTRY. Highlights the close relationships of organic chemistry and biochemistry with the field of medicine. Relies on the departmental computational laboratory to permit three-dimensional visualization of molecular interactions. Includes 3 hours of lecture each week. *Prerequisites:* CHEM 3371, 3372.

CHEM 5486 (4). INSTRUMENTAL ANALYSIS. The theory, operation, and application of instrumentation used in the modern chemical laboratory. Includes 2 hours of lecture and two 3-hour laboratory periods each week. *Prerequisite:* CHEM 3351 or permission of instructor.

EARTH SCIENCES

www.smu.edu/earthsciences

Professor Robert T. Gregory, **Department Chair**

Professors: Robert T. Gregory, Bonnie Jacobs, Louis Jacobs, Zhong Lu, Jim Quick, Brian Stump, Neil Tabor, John Walther, Crayton Yapp. **Associate Professors:** Heather DeShon, Matthew Hornbach, Maria Beatrice Magnani. **Assistant Professor:** Rita Economos. **Research Assistant Professors:** Alanna Lester, Lee Perren, Brian Quinn.

General Information

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 science is an interdisciplinary, applied science that integrates well with other fields. It attracts students with broad interests in geology, chemistry, biology, environmental science, archaeology, astronomy, oceanography, engineering, applied mathematics or physics. 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, world languages, English, history, journalism and premed.

Academic programs are tailored to the educational and career objectives of each student. Because of the heavily funded active research programs within the department and 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. Two minors, one in geology and the other in environmental earth sciences, are available for those not pursuing a major in the earth sciences. The department is also the home of the environmental science and environmental studies programs.

Bachelor of Arts or Bachelor of Science With a 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. 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.A. Degree. A minimum of 28 hours in Earth sciences and a minimum of nine hours of support courses, selected from the following:

Requirements for the Major	*Credit Hours*
GEOL Courses	14
One from GEOL 1301, 1305, 1307, 1308, 1313, 1315	
GEOL 3340, 3451, 3452	
Earth Science Electives	12
(at the 3000 level or above)	
Geology Field Studies	2–3
GEOL 3243 *or* 3343	
Required Support Courses	9–12
CHEM 1301 *or* 1303	
PHYS 1301 and 1303 (recommended), *or* 1313	
MATH 1337	
	37–41

Requirements for the B.S. Degree. A minimum of 36 hours in Earth sciences and a minimum of 17 hours of support courses, selected from the following:

Requirements for the Major	*Credit Hours*
GEOL Courses	18
One from GEOL 1301, 1305, 1307, 1308, 1313, 1315	
GEOL 3340, 3451, 3452, 3454	
Earth Science Electives	12
(at the 3000 level or above)	
Geology Field Studies and Research	6–9
GEOL 3243 *or* 3343	
GEOL 4296 and 4298, *or* 4657	
Required Support Courses	17
CHEM 1303/1113, 1304/1114	
PHYS 1303	
MATH 1337, 1338	
	53-56

Notes

- Experience with a modern scientific computing language is essential and can be gained in a course such as **GEOL 3359** Computer Methods in the Earth Sciences.
- The requirements for the geology 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. Students should 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:

Requirements for the Minor	*Credit Hours*
GEOL Courses	3
One from GEOL 1301, 1305, 1307, 1308, 1313, 1315	
Earth Science Electives	12
(at the 3000 level or above)	
Geology Field Studies	
GEOL 3243 *or* 3343	2–3
	17–18

Bachelor of Science With a 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 and a minimum of 30 hours of support courses, selected from the following:

Requirements for the Major	*Credit Hours*
GEOL Courses	24
One from GEOL 1301, 1305, 1307, 1313, 1315	
GEOL 3340, 3451, 3452	
GEOL 3380, 3454, 5320	
Earth Science Electives	9
(at the 3000 level or above; with at least 3 credit hours in geophysics)	
Required Support Courses	30
CHEM 1303/1113	
PHYS 1303/1105, 1304/1106	
MATH 1337, 1338, 2339, 2343, 3337, 3353	
	63

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 and 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.

Bachelor of Science With a 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 and a minimum of 23 hours of support courses, selected from the following:

Requirements for the Major	*Credit Hours*
GEOL Courses	33–37
One from GEOL 1301 (recommended), 1305, 1307, 1308, 1313, 1315	
GEOL 3340, 3451, 3452	
GEOL 3330, 5384, 5386	
Two from GEOL 3343, 3353, 3374, 3454, 3472, 4390, 5459	
GEOL 4296 and 4298, *or* 4657	
Required Support Courses	23
CHEM 1303/1113, 1304/1114	
PHYS 1303	
MATH 1337, 1338, 2339, 2343	
	56–60

Notes

- Experience with a modern scientific computing language is essential and 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 lead to a major. The minor is not available to students majoring in environmental Earth sciences. 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 or minoring in the Earth sciences. The Roy M. Huffington 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:

Requirements for the Minor	*Credit Hours*
One from GEOL 1301, 1305, 1307, 1308, 1313, 1315	3
One from GEOL 3330, 3340, 3353, 3363, 3366	3
Any four from the following:	11–12
GEOL 1315, 3243, 3307, 3330, 3340, 3343, 3353, 3363, 3366, 5384, 5386 (if not taken for the requirements above) BIOL 1305, 3307, 3342 CEE 5311	
	17–18

The Courses (GEOL)

GEOL 1100 (1). EARTH SCIENCES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 1200 (2). EARTH SCIENCES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 1300 (3). EARTH SCIENCES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 1301 (3). EARTH SYSTEMS. Examines geologic change within the earth as governed by physical, chemical, and biological processes, as well as interactions among the solid earth, oceans, atmosphere, and biosphere. Includes 3 hours of lecture and one 2-hour laboratory each week. Recommended for all geology tracks.

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

GEOL 1307 (3). 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. Includes 3 hours of lecture and one 2-hour laboratory each week.

GEOL 1308 (3). EARTH AND LIFE. Covers the evolution of Earth from the origin of the universe, the evolution of life since its origin, and the relationships between the two, including issues of societal relevance such as energy resources and climate change. Unifying concepts are time and change on astronomical to human scales. Meets once per week at the Perot Museum, supplemented by a field trip to several locations of interest in the Dallas area. Students are responsible for their own transportation to and from the Perot Museum for each class.

GEOL 1313 (3). 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 emphasizes the geologic insights provided by earthquakes and volcanoes, and their impact on society.

GEOL 1315 (3). INTRODUCTION TO ENVIRONMENTAL SCIENCE. Uses the fundamental principles of ecology, hydrology, geology, population dynamics, land-use management, and related fields as the basis for understanding many of the major environmental issues that face the 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. Includes 3 hours of lecture and one 2-hour laboratory each week. Field trips take the place of some laboratory classes.

GEOL 2320 (3). SOUTHWESTERN ENVIRONMENTS: A GEOLOGICAL APPROACH. An investigation of the processes affecting geologic and environmental change in the southwestern

United States. Can fulfill a 1300-level GEOL course requirement for a major or minor in geology. (SMU-in-Taos)

GEOL 2321 (3). SOUTHWESTERN ENVIRONMENTS: A GEOLOGICAL APPROACH. An investigation of the processes affecting geologic and environmental change in the southwestern United States. Can fulfill a 1300-level GEOL course requirement for a major or minor in geology. (SMU-in-Taos)

GEOL 3100 (1). EARTH SCIENCES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 3107 (1). DEPARTMENTAL SEMINARS. 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.

GEOL 3200 (2). EARTH SCIENCES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 3243 (2). GEOLOGY FIELD STUDIES. Project- and mapping-oriented, 2 week field trips to classical geological localities inside or outside of the U.S. Trips are normally conducted during the May interterm or between terms. Examples of planned trips include the Caribbean, Hawaii, the Grand Canyon, Lake Superior in Canada, New Mexico, or Colorado. *Prerequisites:* One 1300-level course in Earth sciences and permission of instructor.

GEOL 3300 (3). EARTH SCIENCES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

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

GEOL 3330 (3). RESOURCES AND THE ENVIRONMENT. A study of Earth's materials and processes and the effects they have on resource conservation planning and the pollution problems that arise from humankind's intense use of the Earth's resources. *Prerequisites:* Permission of instructor or high school algebra, CHEM 1301 or 1303, and one 1300-level course in Earth sciences.

GEOL 3340 (3). FACE OF THE EARTH. Students study the theory of plate tectonics in order to understand earthquake, volcano, and mountain-belt formations. Specific application of the theory helps to illustrate North American regional geology features such as coastal areas and the San Andreas Fault. *Prerequisite:* One 1300-level course in Earth sciences or permission of instructor.

GEOL 3343 (3). GEOLOGY FIELD STUDIES. Project- and mapping-oriented, 2 week field trips to classical geological localities inside or outside of the U.S. Trips are normally conducted during the May interterm or between terms. Examples of planned trips include the Caribbean, Hawaii, the Grand Canyon, Lake Superior in Canada, New Mexico, or Colorado. *Prerequisites:* One 1300-level course in Earth sciences and permission of instructor.

GEOL 3353 (3). 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.

GEOL 3359 (3). 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.

GEOL 3360 (3). PROCESS GEOMORPHOLOGY. Analysis of geological processes and other factors that influence or control the origin and development of Earth's landforms. Includes laboratory exercises and field trips. *Prerequisite:* One 1300-level course in Earth sciences or permission of instructor.

GEOL 3361 (3). 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 speak-

ers, and research projects. *Prerequisite:* One 1300-level Earth sciences course or permission of instructor.

GEOL 3363 (3). 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.

GEOL 3369 (3). PALEOBIOLOGY. A survey of biological diversity, phylogenetic analysis, rates of evolution, extinction, biogeography, taphonomy, and paleoecology. *Prerequisites:* BIOL 1401, 1402, or one 1300-level course in Earth Sciences, or permission of instructor.

GEOL 3374 (3). INTRODUCTION TO PETROLEUM GEOLOGY. An introduction to stratigraphy, sedimentation, and petroleum geology. *Prerequisite:* One 1300-level course in Earth sciences or permission of instructor.

GEOL 3380 (3). INTRODUCTION TO GEOPHYSICS. Survey of geophysical techniques used to understand the structure and dynamics of the solid earth, including seismology, geodesy, gravity, heat flow, and magnetism. *Prerequisites:* One 1300-level course in Earth sciences and GEOL 3340.

GEOL 3451 (4). EARTH MATERIALS I: MINERALOGY. 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. *Prerequisite:* One 1300-level course in Earth sciences. *Prerequisite or corequisite:* CHEM 1301 or 1303.

GEOL 3452 (4). EARTH MATERIALS II: 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. *Prerequisite:* One 1300-level course in Earth sciences. *Prerequisite or corequisite:* GEOL 3340.

GEOL 3454 (4). STRUCTURAL GEOLOGY. Introduction to the stress-strain relations of rocks, the origin of faults, the brittle-to-ductile transition, and the mechanics of thrusting and folding. Also, laboratory problems in structure contouring, fault solutions, stereonet manipulation, and analysis of folded terrains. *Prerequisite or corequisite:* GEOL 3452 or permission of instructor.

GEOL 3472 (4). PRINCIPLES OF SEDIMENTATION. A study of the origin and postdepositional 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 or corequisite:* GEOL 3451 or permission of instructor.

GEOL 4199 (1). 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.

GEOL 4296 (2). SENIOR THESIS RESEARCH PROJECT. This is a significant scientific project. GEOL 4296, 4298 are taken during the student's senior year as a 1-year sequence.

GEOL 4298 (2). SENIOR THESIS RESEARCH PROJECT. This is a significant scientific project. GEOL 4296, 4298 are taken during the student's senior year as a 1-year sequence.

GEOL 4299 (2). 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.

GEOL 4321 (3). 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 3.000; GEOL 3452; and sponsorship of a professor and approved organization, agency, or company.

GEOL 4390 (3). INTRODUCTION TO GEOPHYSICAL PROSPECTING. Introduction to geophysical exploration techniques. Lecture and laboratory. *Prerequisite:* MATH 1338 or permission of instructor.

GEOL 4399 (3). 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.

GEOL 4657 (6). FIELD GEOLOGY. Geologic mapping and field trips in a summer field-camp setting. *Prerequisites:* GEOL 3454, 3472 or permission of instructor.

GEOL 5110 (1). INDEPENDENT STUDY IN GEOSCIENCE. Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for GEOL 5110 or 5210; group projects allowed for GEOL 5310.

GEOL 5166 (1). VERTEBRATE ANATOMY LABORATORY. A laboratory course to accompany BIOL/GEOL 5366. Exercises include basic anatomy, dissections, and examinations of fossil skeletons. *Corequisite:* GEOL/BIOL 5366.

GEOL 5199 (1). 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.

GEOL 5210 (2). INDEPENDENT STUDY IN GEOSCIENCE. Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for GEOL 5110 or 5210; group projects allowed for GEOL 5310.

GEOL 5299 (2). 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.

GEOL 5310 (3). INDEPENDENT STUDY IN GEOSCIENCE. Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for GEOL 5110 or 5210; group projects allowed for GEOL 5310.

GEOL 5320 (3). DYNAMIC EARTH I. Covers the physical and chemical structure of the Earth and its evolution through geologic time; dynamic processes in the mantle and crust; the development of the theory of plate tectonics as a unifying mechanism for large-scale geologic processes; and the implications of plate tectonics and contemporary applications to geological and geophysical problems. *Prerequisite:* Permission of instructor.

GEOL 5356 (3). PRINCIPLES AND APPLICATION OF REMOTE SENSING. Covers the principals of remote sensing, remote sensing collection systems, basic remote sensing image analysis and processing techniques, and the applications of remote sensing to geologic studies. *Prerequisites:* PHYS 1304 and MATH 1338, or permission of instructor.

GEOL 5360 (3). ELECTRON MICROPROBE ANALYSIS. Design and operation of the instrument. Correction procedures and computer automation. Analytical techniques and mineral chemistry.

GEOL 5366 (3). VERTEBRATE ANATOMY AND ORIGINS. Introduces vertebrate anatomy, with emphasis on structure and function. 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.

GEOL 5368 (3). PALEOECOLOGY. Interactions between the living world and the Earth's changing environments through geologic time. *Prerequisite:* GEOL 3369 or permission of instructor.

GEOL 5372 (3). PRINCIPLES OF SEDIMENTATION. Study of the origin and evolution of sedimentary rocks in terms of interpretation of marine and non-marine sedimentary record.

GEOL 5374 (3). PETROLEUM GEOLOGY. Application of geologic principles to the location and recovery of hydrocarbon resources in the crust of the earth. *Prerequisite:* Permission of the instructor.

GEOL 5380 (3). 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.

GEOL 5384 (3). HYDROGEOLOGY. Introduces the chemical and physical behavior of natural waters and the role of fluids in geologic processes. Includes 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.

GEOL 5386 (3). 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.

GEOL 5389 (3). THEORY OF DIGITAL DATA PROCESSING IN GEOPHYSICS. Covers 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.

GEOL 5391 (3). 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.

GEOL 5392 (3). INTRODUCTION TO SEISMOLOGY. Basic principles of seismology. *Prerequisites:* MATH 2343 and permission of instructor.

GEOL 5394 (3). GEOPHYSICAL PROBLEM-SOLVING. Covers 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, and use of models in the real world. Students complete a term project. *Prerequisites:* MATH 2343, 5353; knowledge of a programming language.

GEOL 5399 (3). 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.

GEOL 5459 (4). 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.

ECONOMICS

www.smu.edu/economics

Professor Santanu Roy, **Department Chair**

Professors: Nathan Balke, Raveendra Batra, Rajat Deb, Klaus Desmet, Tom Fomby, Kathy Hayes, Daniel Millimet, Santanu Roy, Tim Salmon **Associate Professors:** Bo Chen, Thomas Osang, Saltuk Ozerturk. **Assistant Professors:** Anna Kormilitsina, Elira Kuka, James Lake, Omer Ozak, Danila Serra. **Senior Lecturers:** Helen Reynolds, Elizabeth Wheaton. **Lecturer:** Marcela Giraldo.

General Information

Students majoring in economics may choose among four degree plans. Under each degree plan, students are expected to take ECO 1311 and 1312, MATH 1309 or 1337, and STAT 2301 or 2331 during the first or second year. Once the major is declared, due progress must be made in terms of course enrollment. Finally, under each degree plan, students must have a GPA of at least 2.000 in economics courses attempted and must receive at least a grade of *C-* in all classes counting toward the major. If requirements change, the catalog in force at the time the major is declared prevails.

Notes for All B.S. in Economics Majors

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 the economics undergraduate adviser and the director of undergraduate studies.
5. Students majoring in economics are urged to consult a departmental adviser periodically to review their degree plans and progress.
6. **S**ubfields: The 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 6): ECO 5350, 5375, 5380, 5385, 5390, 6352
Economic Growth and Development (2 out of 4): ECO 5359, 5360, 5361, 5362
Economics of Industrial Organization (2 out of 2): ECO 4371, 4382
International Economics (2 out of 2): ECO 4357, 4358
Labor Economics (2 out of 3): ECO 4351, 4361, 5357
Economics of Decision-Making (2 out of 4): ECO 5340, 5341, 5342, 5353
Monetary Economics (2 out of 2): ECO 4385, 4386
Public Economics (2 out of 4): ECO 4365, 5320, 5365, 5370

Students are encouraged to discuss these fields with faculty, especially while completing ECO 3301 and 3302.

Admission of SMU Students to an Economics Major

Regular admission to any Economics major requires:

1. Completion of 30 hours
2. Minimum all-college cumulative GPA of 2.700.
3. A minimum GPA of 2.700 in the Economics subset:
   DISC 1312
   ECO 1311
   ECO 1312
   MATH 1309 or 1337
   STAT 2301, 2331, or 4340

Notes

1. For declaration purposes, the subset GPA is recorded at the end of the term the student completes the Economics subset AND has at least 30 cumulative credit hours.
2. Once a student enters SMU, all remaining subset courses must be completed through enrollment at SMU.
3. With the exception of courses completed under the SMU first-year grade-repeat policy (under Grades for Repeated Courses in the Grade Policies section of the catalog), the subset GPA is calculated using the first graded attempt of these courses, even if the grade was later repeated.
4. All subset courses must be taken for a grade, with the exception of those courses in which the student has test credit.
5. Students must earn a C- or better in all subset courses prior to declaring an Economics major. Current University grading policy, as summarized under Academic forgiveness in the General Policies section of this catalog, permits forgiveness of academic work taken 10 or more years prior to the term of declaration. Academic work forgiven under this policy will not be included in the subset or all-college cumulative GPA.
6. The subset GPA for students who have AP or IB credit is based on the remaining graded subset courses.
7. Examination by CLEP, AP or IB will be ignored, and the subset will be based on coursework for which a grade has been given. So for example, if the student received AP credit for MATH 1309/1337, their subset would use only STAT 2301/2331, ECO 1311, ECO 1312 and DISC 1312.

Bachelor of Arts With a Major in Economics

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. All advanced economics courses must have the ECO prefix, with the exception of FINA 3320, 3330 and 4326.

Requirements for the Major	*Credit Hours*
Economics	12
ECO 1311, 1312, 3301, 3302	
Mathematics and Statistics	6
MATH 1309 *or* 1337 STAT 2301 *or* 2331 *or* 4340	

Requirements for the Major (continued)	*Credit Hours*
Advanced Electives (six courses from the list below)	18
ECO 3355, 4301, 4351, 4357, 4358, 4361, 4365, 4368, 4371, 4376, 4378, 4382, 4385, 4386, 4390, 4395–99, 5301, 5320, 5340–42, 5350, 5353, 5357, 5359–62, 5365, 5370, 5375, 5380, 5385, 5390 (**Note:** only two can be from ECO 4390, 4395–99)	
FINA 3320, 3330, 4326	
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Bachelor of Science With a Major in Economics

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. All advanced economics courses must have the ECO prefix; no substitutions are allowed. **Note:** Any 5000- or 6000-level courses taken to complete an approved economic field may also be used to satisfy the requirement for the B.S. degree of at least six hours at the 5000 level or above.

Requirements for the Major	*Credit Hours*
Economics	12
ECO 1311, 1312, 3301, 3302	
Mathematics and Statistics	9
MATH 1337, 1338 and one from STAT 2301, 2331, 4340	
Econometrics	3
ECO 5350	
Advanced Electives (seven courses from the list below, with at least 3 hours at the 5000 level or above)	21
At least one of the approved subfields listed above in "Notes for All B.S. in Economics Majors" must be satisfied by the advanced economics courses selected.	
ECO 3355, 4301, 4351, 4357, 4358, 4361, 4365, 4368, 4371, 4376, 4378, 4382, 4385, 4386, 4390, 4395–99, 5301, 5320, 5340–42, 5350, 5353, 5357, 5359–62, 5365, 5370, 5375, 5380, 5385, 5390 (**Note:** only two can be from ECO 4390, 4395–99)	
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Bachelor of Science with a Major in Economics (Management Information Applications Concentration)

This concentration within the B.S. degree combines specialized training in economics, econometrics and management information systems in areas important to the study of big data. In order to take any upper-level EMIS classes, students must complete the subset requirements of the EMIS department, which include EMIS 1360 (students are limited to a maximum of two enrollments in this course), MATH 1337 and 1338, DISC 1312/2305 and 1313/2306 or equivalent, and CSE 1341 and 1342, with a 3.000 average subset GPA and a *C* or better in each subset course. All advanced economics courses must have the ECO prefix; no substitutions are allowed. **Note:** Any 5000- or 6000-level courses taken to complete an approved economic

field may also be used to satisfy the requirement for the B.S. degree of at least six hours at the 5000 level or above.

Requirements for the Major	*Credit Hours*
Economics	12
ECO 1311, 1312, 3301, 3302	
Econometrics	6
ECO 5350 At least one from ECO 5375, 5380, 5385, 6352	
Engineering	18
CSE 1341, 1342 EMIS 1360, 2360, 3360 EMIS 3340 *or* CSE/STAT 4340	
Mathematics & Statistics	9
MATH 1337, 1338, 3353 STAT 5304 (recommended)	
Advanced Electives (five courses from the list below, with at least 6 hours at the 5000 level or above)	15
At least one of the approved subfields listed above in "Notes for All B.S. in Economics Majors" must be satisfied by the advanced economics courses selected. ECO 3355, 4301, 4351, 4357, 4358, 4361, 4365, 4368, 4371, 4376, 4378, 4382, 4385, 4386, 4390, 4395–99, 5301, 5320, 5340–42, 5353, 5357, 5359–62, 5365, 5370, 5375, 5380, 5385, 5390 (**Note:** Only two can be from ECO 4390, 4395–99)	
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Bachelor of Science With a Major in Economics With Finance Applications

This B.S. degree combines specialized training in economics with a concentration in areas significant to financial markets. It is particularly suited to those seeking a career in the financial sector. All advanced economics courses must have the ECO prefix; no substitutions are allowed. **Note:** Any 5000- or 6000-level courses taken to complete an approved economic field may also be used to satisfy the requirement for the B.S. degree of at least six hours at the 5000 or above level.

Requirements for the Major	*Credit Hours*
Economics	12
ECO 1311, 1312, 3301, 3302	
Financial Economics	9
ECO 3355, 4368, 4378	
Mathematics and Statistics	6
MATH 1309 *or* 1337 STAT 2301 *or* 2331 *or* 4340	
Computer Science and Engineering	3
CSE 1340 *or* 1341 (*or* ITOM 3306 for business majors/minors only)	

Requirements for the Major (continued)	*Credit Hours*
Accounting	3
ACCT 2301 ACCT 2302 (recommended)	
Advanced Electives (six courses from the list below, with at least 6 hours at the 5000 level or above)	18
At least one of the approved subfields listed above in "Notes for All B.S. in Economics Majors" must be satisfied by the advanced economics courses selected.	
ECO 4301, 4351, 4357, 4358, 4361, 4365, 4371, 4376, 4382, 4385, 4386, 4390, 4395–99, 5301, 5320, 5340–42, 5350, 5353, 5357, 5359–62, 5365, 5370, 5375, 5380, 5385, 5390 (**Note:** Only two can be from ECO 4390, 4395–99)	
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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.

Minor in Economics

Students majoring in other departments may obtain a minor in economics. Students must have a GPA of at least 2.000 in economics courses attempted and 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 obtain either a general minor in economics or a minor in a specialized field (international economics, public economics, labor economics, economic growth and development, econometrics, monetary economics, economics of industrial organization, or economics of decision-making). 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.

Requirements for the Minor	*Credit Hours*
Economics	12
ECO 1311, 1312, 3301, 3302	
Mathematics and Statistics	6
MATH 1309 *or* 1337 STAT 2301 *or* 2331 *or* 4340	
Advanced Electives (two courses from the list below)	6
ECO 4301, 4351, 4357, 4358, 4361, 4365, 4368, 4371, 4376, 4378, 4382, 4385, 4386, 4390, 4398, 5301, 5320, 5340–42, 5350, 5353, 5357, 5359–62, 5365, 5370, 5375, 5380, 5385, 5390	
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ECO 1310 (3). EXPLORING ECONOMIC ISSUES. An introduction to current economic issues and problems, discussed in a manner suitable for students not majoring in economics or related sciences. Students may not receive credit for this course after receiving credit for ECO 1311 or 1312. The course may not be used to satisfy requirements for either an economics major or minor.

ECO 1311 (3). PRINCIPLES OF MICROECONOMICS: CONSUMERS, FIRMS, AND MARKETS. Explains tools of economic analysis and focuses on the individual participants in the economy: producers, workers, employers, and consumers.

ECO 1312 (3). PRINCIPLES OF MACROECONOMICS: INFLATION, RECESSION, AND UNEMPLOYMENT. Covers 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.

ECO 2301 (3). TOPICS IN ECONOMICS. Topics vary. The course may not be used to satisfy requirements for either an economics major or minor. *Prerequisite:* ECO 1310, 1311, or 1312.

ECO 3301 (3). PRICE THEORY (INTERMEDIATE MICROECONOMICS). Building on topics covered in ECO 1311, this course considers problems of microeconomics that are more advanced, with a focus on understanding how consumers behave, firms make pricing and output decisions, and market structure impacts the behavior of firms and consumers. *Prerequisites:* C- or better in the following: ECO 1311, 1312 and MATH 1309 or 1337.

ECO 3302 (3). INTERMEDIATE MACROECONOMICS. Investigates the factors that influence the level of aggregate income in an economy and the decision-making that ultimately results in the determination of levels of consumption, investment, or employment. Students analyze the impact of various government fiscal policies (using general equilibrium models) and the behavior of business cycles and patterns across various countries. *Prerequisites:* ECO 1311, 1312, 3301 and MATH 1309 or 1337.

ECO 3321 (3). 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. This course may not be used to satisfy requirements for either an economics major or minor. *Prerequisites:* C- or better in ECO 1311, 1312. Note: ECO 3321 cannot be taken after or concurrent with ECO 4357.

ECO 3355 (3). MONEY AND BANKING. Analyzes central and commercial banking. A student may not receive credit for both ECO 3355 and FINA 3330. *Prerequisites:* C- or better in ECO 1311, 1312. Reserved for economics majors and markets and cultures majors only.

ECO 4101 (1). TOPICS. Topics vary. *Prerequisites:* C- or better in ECO 3301 and 3302, or permission of instructor.

ECO 4110 (1). ECONOMICS PRACTICUM. This advanced economics internship credit course requires weekly journal entries reflecting student experience. *Prerequisites:* ECO 3301, 3302; two advanced economics classes (4000 level or above); a 3.000 GPA in economics classes; STAT 2301, 2331, or 4340; and approval of the director of undergraduate studies.

ECO 4201 (2). TOPICS. Topics vary. *Prerequisites:* C- or better in ECO 3301 and 3302, or permission of instructor.

ECO 4301 (3). TOPICS. Topics vary. *Prerequisites:* C- or better in ECO 3301, 3302 or permission of instructor.

ECO 4340 (3). CULTURAL ECONOMICS. Introduces the field of cultural economics, with a focus on welfare valuations, valuation of nonmarket goods, and intellectual property. *Prerequisites:* C- or better in ECO 3301; STAT 2301, 2331, or 4340.

ECO 4345 (3). ETHICS IN ECONOMICS. An explanation of historical and current perspectives of how societies and economies function. *Prerequisites:* C- or better in ECO 3301; STAT 2301, 2331, or 4340.

ECO 4351 (3). LABOR ECONOMICS. An overview of labor supply and labor demand models, with extensions to models of taxes and tax credits, welfare, and Social Security. Also, models of wage determination and extensions such as the effects of minimum wage, performance-based pay, unions, and discrimination. *Prerequisites:* C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 4355 (3). ENVIRONMENTAL ECONOMICS. Provides insights into why environmental damages and degradation arise, and how such market failures may be addressed. *Prerequisites:* C- or better in ECO 1311, 1312, 3301, and 3302.

ECO 4357 (3). INTERNATIONAL TRADE. Examines international trade in goods and services among countries and develops a framework for analyzing trade policy issues. The course covers only the real effects of trade and not international financial issues. *Prerequisites:* C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 4358 (3). INTERNATIONAL MACROECONOMIC THEORY AND POLICY. Explores implications of contemporary banking and foreign exchange practices, with a focus on the macroeconomic interactions among national economies and international systematic adjustments expected from market disturbances and shifting government policies. Students evaluate the operation of the international monetary system from the gold-standard period to the present. *Prerequisites:* C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 4340.

ECO 4361 (3). 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 the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 4365 (3). STATE AND LOCAL GOVERNMENT. Examines how state and local governments make decisions about what services to provide their constituents and how to finance those services. *Prerequisites:* C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 4368 (3). FOUNDATIONS OF FINANCIAL ECONOMICS. Applies the tools of economic analysis to financial decision-making. Emphasis is placed on developing a framework for understanding the problems and solutions associated with the economic nature of finance. Students may not receive credit for this course and FINA 3320. *Prerequisites:* C- or better in the following: ECO 3301, 3355; ACCT 2301; and ITOM 2305 or STAT 2301, 2331, or 4340. Reserved for economics majors and minors only.

ECO 4371 (3). THEORY OF INDUSTRIAL STRUCTURE. A focus on the structure and behavior of firms in the marketplace. The course considers both the exercise of market power in relatively simple markets with a single firm as well as the more complicated exercise of market power in markets with multiple firms. *Prerequisites:* C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 4376 (3). SPECIAL TOPICS IN ECONOMIC HISTORY AND DEVELOPMENT. Economic principles are used to explore important and controversial questions. *Prerequisite:* C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 4378 (3). FINANCIAL ECONOMICS AND INVESTMENT BEHAVIOR. Gives a theoretical basis for financial analysis within the context of the total process of investment decision-making, and develops the theoretical foundations for analysis of equities, bonds, and portfolio performance. *Prerequisites:* Permission of instructor, or ECO 4368 or FINA 3320 and C- or better in ECO 3301 and in ITOM 2305 or STAT 2301, 2331, or 4340. Reserved for economics majors and minors. (ECO 4378 cannot be taken if the student has taken FINA 4320 or 4326.)

ECO 4382 (3). ECONOMICS OF REGULATED INDUSTRIES. Examines why government regulation of business exists and what impact it has on firms' behavior, market structure, and social welfare. *Prerequisites:* C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 4385 (3). MACROECONOMICS: THEORY AND POLICY. Examines new developments in the analysis of business cycles, the causes and consequences of inflation, and the sources of

economic growth. *Prerequisites:* C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 4340.

ECO 4386 (3). TOPICS IN MONETARY ECONOMICS. An in-depth look at selected topics of current interest in the field of monetary theory and policy. The topics covered vary from year to year. *Prerequisites:* C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 4340.

ECO 4390 (3). 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 only be taken once. *Prerequisites:* ECO 3301, ECO 3302, two advanced economics classes (4000 level or above), 2.500 GPA in economics classes, and one of the following: STAT 2301, 2331, or 4340.

ECO 4398 (3). DEPARTMENTAL DISTINCTION IN ECONOMICS. By arrangement with departmental director of undergraduate studies. Eligible students undertake a research paper under the supervision of a faculty sponsor and give an oral presentation of the paper. *Prerequisites:* ECO 3301, ECO 3302, two advanced economics courses (4000 level or above), 3.700 GPA in economics classes, 3.500 GPA overall, senior standing, and one of the following: STAT 2301, 2331, or 4340.

ECO 5101 (1). TOPICS. Topics vary. *Prerequisites:* C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 4340.

ECO 5201 (2). TOPICS. Topics vary. *Prerequisites:* C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 4340.

ECO 5301 (3). TOPICS. Topics vary. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 4340.

ECO 5320 (3). 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. *Prerequisite:* C- or better in ECO 3301.

ECO 5340 (3). DECISION-MAKING UNDER UNCERTAINTY. Provides a basis for the modeling of decision-making under conditions of incomplete information. *Prerequisites:* C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 2340.

ECO 5341 (3). STRATEGIC BEHAVIOR. Introduces the basic concepts and tools of game theory, with applications to various areas of economics. The various topics are unified by the techniques employed for determining the outcome in particular situations. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 5342 (3). 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. *Prerequisite:* C- or better in ECO 3301. Recommended: ECO 5341, 5350.

ECO 5350 (3). INTRODUCTORY ECONOMETRICS. The basic concepts of econometrics and, in particular, regression analysis, with topics geared to first-time regression users. Students may not receive credit for this course and STAT 5350. *Prerequisites:* Graduate standing or C- or better in the following: MATH 1309 or 1337; ECO 3301; and ITOM 2305 or STAT 2301, 2331, or 4340.

ECO 5353 (3). LAW AND ECONOMICS. Examines economic theories that explain the development of common law and constitutional law and the economic implications of contracts, antitrust laws, and liability rules. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 5357 (3). ECONOMICS OF HUMAN RESOURCES. Examines several topics of interest to modern labor economists. The course is equally devoted to theoretical modeling and the interpretation of empirical evidence, and to the analysis of policies such as education subsidies, unemployment insurance, the minimum wage, and immigration restrictions. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340. ECO 4351 is recommended.

ECO 5359 (3). 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, and credit and insurance

markets. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 5360 (3). 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:* Graduate standing or C- or better in the following: ECO 3302 and STAT 2301, 2331, or 4340.

ECO 5361 (3). NATURAL RESOURCE ECONOMICS. Addresses the market effects of pollution and environmental damage, environmental valuation, property rights and externalities, sustainable development, poverty and the environment, trade and the environment, climate change policies, population growth, and public environmental policy. Students gain an understanding of the economics of energy and natural resource use and policy. *Prerequisites:* Graduate standing or C- or better in ECO 3301 and STAT 2301, 2331, or 4340.

ECO 5362 (3). ECONOMIC GROWTH. Examines the facts and theories of economic growth, the economics of technological changes, and the role of governments and markets in promoting or impeding economic development. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301, 3302 and STAT 2301, 2331, or 4340.

ECO 5365 (3). PUBLIC FINANCE. Covers the theories of the public sector and the problems of market failures, externalities, and preference revelation. Specific government expenditure policies are analyzed. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340. Recommended: ECO 3302.

ECO 5366 (3). ECONOMICS OF THE PUBLIC SECTOR. Explores both the positive and normative aspects of government expenditures. *Prerequisites:* C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 5370 (3). COST-BENEFIT ANALYSIS. Introduces the tools for evaluating alternative methods of government intervention and develops a framework for evaluating costs and benefits of economic projects from the government's point of view. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301 and STAT 2301, 2331, or 4340.

ECO 5375 (3). 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. Students may not receive credit for this course and STAT 5375. *Prerequisites:* C- or better in the following: STAT 2301, 2331; or STAT 4340; or ITOM 2305 and ECO 5350.

ECO 5380 (3). COMPUTING FOR ECONOMICS. The primary objective is to teach programming skills. Programs to be reviewed could include SAS, R, STAT, SPSS, MATLAB, SQL, and Cognos. *Prerequisites:* Graduate standing or C- or better in the following: ECO 3301, 3302, and 5350; MATH 1309 or 1337; and ITOM 2305 or STAT 2301, 2331, or 4340.

ENGLISH

www.smu.edu/english

Professor Darryl Dickson-Carr, **Department Chair**

Professors: Darryl Dickson-Carr, Thomas DiPiero, Dennis Foster, Ezra Greenspan, David Haynes, Ross Murfin, Jasper Neel, Willard Spiegelman, Steven Weisenburger. **Associate Professors:** Angela Ards, Richard Bozorth, Greg Brownderville, Michael Holahan, Daniel Moss, Beth Newman, Timothy Rosendale, Nina Schwartz, Lisa Siraganian, Rajani Sudan, Bonnie Wheeler. **Assistant Professors:** Timothy Cassedy, Jayson Gonzales Sae-Saue, Martha Satz. **Professors of Practice:** Joan Arbery, Patricia Pisano, Angela Wood. **Senior Lecturers:** Diana Grumbles Blackman, Carolyn Channell, Jo Goyne, Vanessa Hopper, Pamela Lange, Bruce Levy, Tom Stone. **Lecturers:** Stephanie Amsel, Marta Harvell, Pauline Newton, Kristen Polster, Ona Seaney, Sam Ross Sloan, Lori Ann Stephens, Vicki Tongate.

General Information

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.

Bachelor of Arts With a Major in English

A grade of *C-* or better must be earned in all courses fulfilling major requirements, and English majors must attain a minimum GPA of 2.000 among all courses attempted for the major.

The department strongly recommends 12 hours of world 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 world 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.)

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:

Requirements for the Major	*Credit Hours*
Core Courses	6
ENGL 2311 *or* 2314, 2315	

Requirements for the Major (continued)	*Credit Hours*
Reading Historically	12
One course at the 3000 or 4000 level from each group: Medieval Literature Early Modern Literature Literature in the Age of Revolutions Modern to Contemporary Literature	
Criticism and Theory	3
ENGL 3310 *or* 4310	
Major Electives	12
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Notes

- The following courses are not acceptable as major electives: **ENGL 1300, 1400** and **2302.**
- **CLAS 3312** Classical Rhetoric may be counted as an English major elective.
- Creative writing courses at the 4000 level do not fulfill the 4000-level literature requirement.

Bachelor of Arts in English With a Creative Writing Specialization

Students pursuing an English major with a creative writing specialization must fulfill all requirements for the English major. All 12 elective hours within the regular major will be devoted to courses selected from the following list: ENGL 2390, 3390, 4390. Students requiring additional terms to complete culminating projects may register for ENGL 4394. 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.

Requirements for the Specialization	*Credit Hours*
Core Courses	6
ENGL 2311 *or* 2314, 2315	
Reading Historically	12
One course at the 3000 or 4000 level from each group: Medieval Literature Early Modern Literature Literature in the Age of Revolutions Modern to Contemporary Literature	
Criticism and Theory	3
ENGL 3310 *or* 4310	
Creative Writing	12
ENGL 2390 *Two courses from two categories of the following:* ENGL 3390 (Studies: thematic) ENGL 3390 (Studies: experiential) ENGL 3390 (Studies: craft) ENGL 4390	
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Departmental Distinction

This program is open to seniors by invitation. To enter the program, a student ordinarily must earn an overall GPA of at least 3.000 by the middle of the junior year, and a 3.500 average or better in courses fulfilling requirements for the major. Candidates for distinction must take ENGL 5310 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 (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 4394. Candidates must earn a *B+* or better in the option selected, and attain a 3.500 GPA in all courses counting toward the major and distinction. ENGL 4394, 5381 and 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.

Minor in English

The minor in English, which is available to students who are not pursing a major in English or major in English with creative writing, requires 15 hours of coursework with no more than six of them in courses numbered below 3000. A grade of *C-* or better must be earned in each course taken to fulfill the requirement for the English minor.

Requirements for the Minor	*Credit Hours*
ENGL 2311, 2314, *or* 2315	3
Minor electives, no more than one below the 3000 level	12
	15

Note: ENGL 1300, 1400 and **2302** 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)	DISC 1311, 1312, 1313, 2305, 2306 ENGL 1300, 1400, 2306, 2406, 3301, 3305, 3308, 5301, 5309
Genre, Method, Criticism (10–19)	ENGL 2310–15, 3310, 4310, 5310
Medieval, c. pre-1500 (20–29)	ENGL 1320, 3320, 3329, 4320, 4321, 4323
Early Modern, c. 1500–1775 (30–39)	ENGL 1330, 3330–32, 3335, 4330–33, 4336, 4339
Age of Revolutions, c. 1775–1900 (40–49)	ENGL 3340, 3341, 3344–48, 4340, 4341, 4343, 4345, 4346, 4349
Modern to Contemporary, c. 1990–present (50–69)	ENGL 1360, 1362, 1363, 1365, 2361, 3350, 3354, 3355, 3359, 3360, 3362–69, 4350, 4351, 4356, 4360, 4369
Other Literature/Language Courses (70–89)	ENGL 1370, 1380, 1385, 2371, 3189, 3370, 3371, 3373–85, 3389, 4370, 5378, 5381
Creative Writing (90–99)	ENGL 2390, 3390, 4390, 4394

ENGL 1300 (3). 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.

ENGL 1301 (3). RHETORIC I: 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.

ENGL 1302 (3). RHETORIC II: 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.

ENGL 1305 (3). PERSPECTIVES OF THOUGHT. Focuses on analytical writing while exploring major modes of interpreting the world and defining what constitutes knowledge in the 21st century. Restricted: Sections available for Hilltop Scholars and New Century Scholars placing out of ENGL 1301. Departmental consent required.

ENGL 1320 (3). CULTURES OF MEDIEVAL CHIVALRY. The development of the ideal of chivalry from its origins in the medieval legends of King Arthur to modern literature.

ENGL 1330 (3). THE WORLD OF SHAKESPEARE. Introductory study of eight or nine of Shakespeare's important plays, placed in historical, intellectual, and cultural contexts.

ENGL 1360 (3). THE AMERICAN HEROINE. Images of the American heroine in popular and traditional literature, studied in terms of their reflection of the evolving roles of American women.

ENGL 1362 (3). 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.

ENGL 1363 (3). 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.

ENGL 1365 (3). LITERATURE OF MINORITIES. Representative works of African-American, Asian-American, gay, Hispanic-American, and Native American literature, in their immediate cultural context and against the background of the larger American culture...

ENGL 1370 (3). TRAGEDY AND THE FAMILY. The study of individual tragedies and kindred texts in various genres and from various periods.

ENGL 1372 (3). ENGLISH STUDIES ABROAD. SMU credit for English courses taken in University-approved programs abroad. Departmental consent required.

ENGL 1380 (3). INTRODUCTION TO LITERATURE. An introduction to the study of literature including a range of literary genres and periods, varying by term.

ENGL 1385 (3). POWER, PASSION, AND PROTEST IN BRITISH LITERATURE. A survey of the history of British literature, from its medieval beginnings to the 20th century, with emphasis on literature as an instrument of power and desire.

ENGL 1400 (4). Students will receive explicit, systematic instruction in reading comprehension and apply fundamental reading skills to narrative and expository texts as well as to coordinated writing assignments of varying lengths.

ENGL 2302 (3). 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. *Prerequisite:* DISC 1312 or 2305.

ENGL 2306 (3). HONORS HUMANITIES SEMINAR II. A study of ethical questions derived from history, literature, psychology, and philosophy that focuses on what constitutes a meaningful life. The course also explores historical challenges to the bases of ethics. *Prerequisite:* DISC 2305.

ENGL 2310 (3). IMAGINATION AND INTERPRETATION. An introduction to literary studies based on topics that vary from term to term. *Prerequisite:* DISC 1312 or 2305.

ENGL 2311 (3). POETRY. Analysis, interpretation, and appreciation of poetry, with attention to terms and issues relevant to the genre. *Prerequisite:* DISC 1312 or 2305.

ENGL 2312 (3). FICTION. Analysis, interpretation, and appreciation of fiction, with attention to terms and issues relevant to the genre. *Prerequisite:* DISC 1312 or 2305.

ENGL 2313 (3). DRAMA. Analysis, interpretation, and appreciation of dramatic works, with attention to terms and issues relevant to the genre. *Prerequisite:* DISC 1312 or 2305.

ENGL 2314 (3). 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. *Prerequisite:* DISC 1312 or 2305.

ENGL 2315 (3). 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. *Prerequisite:* DISC 1312 or 2305.

ENGL 2322 (3). 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:* DISC 1312 or 2305.

ENGL 2361 (3). FORTUNE, FAME, AND SCANDAL: THE AMERICAN DREAM. 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. *Prerequisite:* DISC 1312 or 2305.

ENGL 2371 (3). 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. *Prerequisite:* DISC 1312 or 2305.

ENGL 2372 (3). ENGLISH STUDIES ABROAD. SMU credit for English courses taken in University-approved programs abroad. Departmental consent required.

ENGL 2390 (3). INTRODUCTION TO CREATIVE WRITING. Workshop on the theory and techniques of writing fiction, poetry, and creative nonfiction. *Prerequisite:* DISC 1313 or 2306.

ENGL 2391 (3). INTRODUCTORY POETRY WRITING. Workshop in which student poetry and directed exercises in basic techniques form the content of the course. *Prerequisite:* DISC 1312 or 2305.

ENGL 2392 (3). INTRODUCTORY FICTION WRITING. Workshop in theory, technique, and writing of fiction. *Prerequisite:* DISC 1312 or 2305.

ENGL 2406 (4). 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:* DISC 2305.

ENGL 3189 (1). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3301 (3). ADVANCED EXPOSITORY WRITING. Emphasis on styles and formats appropriate to academic writing, and on individual problems and needs. *Prerequisite:* DISC 1313 or 2306.

ENGL 3305 (3). WRITING AND THE PUBLIC INTELLECTUAL. Study and practice of writing for a broad, well-informed public, including the history and current status of the public intellectual. Includes advanced practice in revising and editing expository prose. *Prerequisite:* DISC 1313 or 2306.

ENGL 3308 (3). 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.

ENGL 3310 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3320 (3). 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 a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3329 (3). COURTLY CULTURES AND 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3330 (3). TOPICS IN EARLY MODERN LITERATURE. Study of a theme, issue, or topic in British literature c. 1500–1775, varying by term. May be repeated for credit under a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3331 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3332 (3). 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 a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3335 (3). 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 a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3340 (3). 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 a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3341 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3344 (3). VICTORIAN GENDER. Through an exploration of fiction, poetry, drama, and other writing from the Victorian period, this course considers why so much of the literature of Victorian England still speaks meaningfully and directly about what it means to be a man or woman. The course focuses on the way writing of the period reflects, questions, and protests the gender distinctions that Victorians understood as the foundation of the social world. *Prerequisite:* DISC 1313 or 2306.

ENGL 3345 (3). 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 a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3346 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3347 (3). TOPICS IN AMERICAN LITERATURE IN THE AGE OF REVOLUTIONS. Study of a theme, issue, or topic in American literature c. 1775–1900, varying by term. May be repeated for credit under a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3348 (3). HISTORY OF PRINT AND DIGITAL CULTURE IN AMERICA. An overview of the history of written communications in America from the introduction of the first printing press in the English colonies to the present era of digital and multimedia culture. Moves across four centuries of writing to introduce students from various disciplinary tracks to the sprawling multidiscipline of the history of the book in its basic theoretical, methodological, and practical dimensions. Examines 1) a literary history of the United States; 2) a narrative of the history of the cultural production, dissemination, and consumption of writing – broadly and inclusively defined – in North America; 3) communications issues crucial to American culture, such as literacy, intellectual property, and freedom of speech; and 4) the formation of the institutions (including schools, libraries, bookstores, print shops, publishing houses, and houses of worship), laws (especially copyright and freedom of speech laws), and technologies that have mediated America's communications history and given rise to American literature, culture, and society. Major topics include the history of American literature; local, regional, and national formation through print; print and race, ethnicity, and gender; the history of authorship, reading, and publishing; the history of journalism; censorship versus freedom of speech; the uses of

literacy; the formations of lowbrow, middlebrow, and highbrow culture; and the history of libraries and archives, with and without walls.

ENGL 3350 (3). TOPICS IN MODERN AND CONTEMPORARY BRITISH LITERATURE. Study of a theme, issue, or topic in British literature c. 1900 to the present, varying by term. May be repeated for credit under a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3354 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3355 (3). 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 a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3359 (3). AMERICAN NARRATIVES OF DISCOVERY. Focuses on the generic process of culture, integrating methods from various disciplines. Considers aesthetic questions about the ways narratives engage in intercultural dialogue, and ethical questions about the implications of ongoing American discoveries of the Southwest. *Prerequisite:* DISC 1313 or 2306.

ENGL 3360 (3). TOPICS IN MODERN AND CONTEMPORARY AMERICAN LITERATURE. Study of a theme, issue, or topic in American literature c. 1900 to the present, varying by term. May be repeated for credit under a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3362 (3). AFRICAN-AMERICAN LITERATURE. Major African-American writers and their works, and various social and historical influences. *Prerequisite:* DISC 1313 or 2306.

ENGL 3363 (3). 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 is helpful to students but is not a prerequisite for the course. *Prerequisite:* DISC 1313 or 2306.

ENGL 3364 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3365 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3366 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3367 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3368 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3369 (3). STUDY OF NATIVE AMERICAN AUTHORS. A study of Native American authors and their works, and various social and historical influences. *Prerequisite:* DISC 1313/2306 or ENGL 1302/2306.

ENGL 3370 (3). SPECIAL TOPICS. Examination of a subject that includes material from a range of historical periods. Topics vary by term; examples include pastoral literature; Shakespeare in England and India; and irony, satire, and politics. May be repeated for credit under a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3371 (3). JOAN OF ARC: HISTORY, LITERATURE, AND FILM. The life and later reception of the extraordinary peasant girl Joan of Arc (c. 1412–1431), who in the 2 years before she was burned at the stake changed the course of European history. *Prerequisite:* DISC 1313 or 2306.

ENGL 3372 (3). ENGLISH STUDIES ABROAD. SMU credit for English courses taken in University-approved programs abroad. Departmental consent required.

ENGL 3373 (3). 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 instructors. *Prerequisite:* DISC 1313 or 2306.

ENGL 3374 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3375 (3). EXPATRIATE WRITERS: THE INVENTION OF MODERNISM. Introduction to literary modernism in early 20th-century Europe through readings of, and films and excursions relating to, expatriate authors working in Paris. *Prerequisite:* DISC 1313 or 2306.

ENGL 3376 (3). LITERATURE OF THE SOUTHWEST. Includes 19th- and 20th-century Anglo, Hispanic, and Native American literature of the southwestern United States. *Prerequisite:* DISC 1313 or 2306.

ENGL 3377 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3378 (3). STUDIES IN THE ENGLISH LANGUAGE. Linguistic introduction to 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3379 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3380 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3381 (3). SEMIOTICS OF CULTURE. Analysis of form, technique, and meaning in literary and textual representation, in comparison or in conjunction with other representational media such as painting, photography, and cinema. Topics vary by term; may be repeated for credit under a different subtitle. *Prerequisite:* DISC 1313 or 2306.

ENGL 3382 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3383 (3). LITERARY EXECUTIONS: IMAGINATION AND CAPITAL PUNISHMENT. The literary treatment of capital punishment in drama, poetry, novel, and biography. *Prerequisite:* DISC 1313 or 2306.

ENGL 3384 (3). LITERATURE AND MEDICINE. How literature reveals the experiences, ethics, and values of those who suffer and their healers. *Prerequisite:* DISC 1313 or 2306.

ENGL 3385 (3). LITERATURE OF THE HOLOCAUST. Explores the literature of the Holocaust and issues of the possibility of aesthetic portrayal of this horrific event. It considers Holocaust literature and post-Holocaust literature. *Prerequisite:* DISC 1313 or 2306.

ENGL 3386 (3). THE GOTHIC NOVEL. Students will write four analytic essays on principal works in the genre of the Gothic Novel. The course will continuously reflect on questions of emerging modernity in science, political change, industrialization, immigration, etc., and its uncanny relation to the past. It will also follow changes in the conception of the psyche from the revolutionary individual of the late 18th century through post-Freudian conceptions of contemporary culture.

ENGL 3389 (3). 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. *Prerequisite:* DISC 1313 or 2306.

ENGL 3390 (3). STUDIES IN CREATIVE WRITING: THEMATIC, EXPERIENTIAL, CRAFT, OR WORKSHOP. Continues the development of fiction, nonfiction, and poetic craft while also engaging students in new media, community-based writing, publishing, editing, and the deeper study of professional technique. *Prerequisite:* ENGL 2390.

ENGL 3391 (3). INTERMEDIATE POETRY WRITING. *Prerequisite:* ENGL 2391 or permission of instructor.

ENGL 3392 (3). INTERMEDIATE FICTION WRITING. *Prerequisite:* ENGL 2392 or permission of instructor.

ENGL 4310 (3). 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 a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4320 (3). MEDIEVAL WRITERS. Intensive study of one or two medieval writers. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4321 (3). STUDIES IN MEDIEVAL LITERATURE. Advanced study of medieval literature focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4323 (3). 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 a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4330 (3). 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 a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4331 (3). RESTORATION AND ENLIGHTENMENT WRITERS. Intensive study of one or two major writers from the period 1660–1775. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4332 (3). STUDIES IN EARLY MODERN BRITISH LITERATURE. Advanced study of British literature c. 1500–1775, focused on a specific problem, topic, or theme. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4333 (3). SHAKESPEARE. Advanced studies in Shakespeare's poetry and plays, in historical, cultural, and theatrical contexts. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4336 (3). STUDIES IN EARLY MODERN AMERICAN LITERATURE. Advanced study of American literature c. 1500–1775, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4339 (3). TRANSATLANTIC STUDIES I. Intensive study of a theme, genre, or topic in transatlantic literature in English from the early modern period (c. 1500–1775). May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4340 (3). ROMANTIC WRITERS. Intensive study of one or two major British writers from the period. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4341 (3). VICTORIAN WRITERS. Intensive study of one or two major British writers from the period. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4343 (3). STUDIES IN BRITISH LITERATURE IN THE AGE OF REVOLUTIONS. Intensive study of British literature c. 1775–1900, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314,

ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4345 (3). AMERICAN WRITERS IN THE AGE OF REVOLUTIONS. Intensive study of one or two major writers from the period. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4346 (3). STUDIES IN AMERICAN LITERATURE IN THE AGE OF REVOLUTIONS. Advanced study of American literature c. 1775–1900, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4349 (3). TRANSATLANTIC STUDIES II. Intensive study of a theme, genre, or topic in transatlantic literature in English during the Age of Revolutions (c. 1775–1900). May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4350 (3). MODERN AND CONTEMPORARY BRITISH WRITERS. Intensive study of one or two major writers from the period. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4351 (3). STUDIES IN MODERN AND CONTEMPORARY BRITISH LITERATURE. Advanced study of British literature c. 1900 to the present, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4356 (3). MODERN AND CONTEMPORARY AMERICAN WRITERS. Intensive study of one or two major writers from the period. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4360 (3). STUDIES IN MODERN AND CONTEMPORARY AMERICAN LITERATURE. Advanced study of American literature c. 1900 to the present, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4369 (3). TRANSATLANTIC STUDIES III. Intensive study of a theme, genre, or topic in transatlantic literature in English from the modern to contemporary period (c. 1900–present). May be repeated for credit under a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4370 (3). 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 a different subtitle. *Prerequisites:* ENGL 2311 or 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, 1400, 2302) or instructor approval.

ENGL 4391 (3). 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.

ENGL 4392 (3). 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.

ENGL 4393 (3). DIRECTED STUDIES IN POETRY WRITING. *Prerequisite:* Open only to advanced students by permission of instructor.

ENGL 4394 (3). DIRECTED STUDIES IN FICTION WRITING. *Prerequisite:* Open only to advanced students by permission of instructor.

ENGL 4395 (3). DIRECTED STUDIES IN POETRY WRITING. *Prerequisite:* Open only to advanced students by permission of instructor.

ENGL 4396 (3). DIRECTED STUDIES IN FICTION WRITING. *Prerequisite:* Open only to advanced students by permission of instructor.

ENGL 4397 (3). 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.

ENGL 4398 (3). 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.

ENGL 5301 (3). DISCOURSE IN SOCIAL SCIENCES. History, characteristics, and functions of scientific writing, with a focus on the rhetoric of inquiry and science as persuasion. Practice in editing of scientific prose. *Prerequisite:* Permission of instructor.

ENGL 5309 (3). SEMINAR IN TEACHING WRITING. Contemporary theory and practice of teaching writing: discourse and rhetorical theory, conferencing and small-group work, designing composition curricula, and writing in all disciplines. Special emphasis on argumentation and persuasion.

ENGL 5310 (3). SEMINAR IN LITERARY THEORY. A seminar for candidates for departmental distinction, designed to acquaint them with particular approaches to literature. *Prerequisite:* Permission of instructor.

ENGL 5378 (3). LINGUISTICS: GENERAL. Introduction to the study of language as a part of human culture.

ENGL 5381 (3). INDEPENDENT STUDIES. Directed readings in an area of the student's choice, to be approved by the director of undergraduate studies and the instructor. Requires a substantial amount of critical writing. Open only to candidates for departmental distinction and to graduate students.

ENGL 5382 (3). INDEPENDENT STUDIES. Directed readings in an area of the student's choice, to be approved by the director of undergraduate studies and the instructor. Requires a substantial amount of critical writing. Open only to candidates for departmental distinction and to graduate students.

ENGL 5383 (3). INDEPENDENT STUDIES. Directed readings in an area of the student's choice, to be approved by the director of undergraduate studies and the instructor. Requires a substantial amount of critical writing. Open only to candidates for departmental distinction and to graduate students.

ENGL 5384 (3). INDEPENDENT STUDIES. Directed readings in an area of the student's choice, to be approved by the director of undergraduate studies and the instructor. Requires a substantial amount of critical writing. Open only to candidates for departmental distinction and to graduate students.

HISTORY

www.smu.edu/history

Professor Andrew Graybill, **Department Chair**

Professors: Jeremy Adams, Kenneth Andrien, John Chávez, Edward Countryman, Neil Foley, Andrew Graybill, Alexis McCrossen, Daniel Orlovsky, Sherry Smith, Kathleen Wellman. **Associate Professors:** Sabri Ates, Crista DeLuzio, Melissa Dowling, Jeffrey Engel, Kate Carté Engel, Kenneth Hamilton, Thomas Knock, John Mears. **Assistant Professors:** Jo Guldi, Erin R. Hochman, Jill E. Kelly, Ada-Maria Kuskowski, Ariel Ron, Ling Shiao. **Visiting Assistant Professor:** Brandon Miller. **Adjunct Assistant Professor:** David Doyle. **Senior Lecturer:** Laurence H. Winnie. **Research Professor:** Robert Righter.

General Information

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.

Bachelor of Arts With a Major in History

A total of 33 hours in history are required for the major, with at least 18 hours in courses at the 3000 and higher levels. All advanced courses taken for the major must be passed with a grade of *C*- or better. History majors must earn 2.000 minimum GPAs in their history coursework and may not take history courses pass/fail. Six hours of advanced-placement credit can be applied toward the history major.

Requirements for the Major	*Credit Hours*
Areas	18
United States History (two 3-hour courses)	
European History (two 3-hour courses)	
African, Asian, Latin American, or Middle Eastern History (two 3-hour courses)	
Junior Seminar	3
HIST 4300	
Senior Seminar	
(at least one 5000-level HIST course required) (counts toward the areas requirement or the electives)	
Electives	12
	33

Departmental Distinction

A history major with sufficiently high standing may graduate with honors in history by applying for the degree with departmental distinction. Eligible students (those who have completed 21 hours of history credit, including the junior seminar, with a 3.700 history GPA and overall 3.500 GPA) will be invited by the department chair to apply. 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 research 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 before a committee of three history faculty members and receive at least an *A-* on the work.

Minor in History

Students with a general interest in history may pursue a minor by successfully completing 15 hours of departmental course credit. Nine credit hours must be successfully completed at the 3000-5000 level. Students may transfer in no more than two of the five courses required for the minor. Only one of the three required advanced courses may be transferred in. Courses for the minor may not be taken pass/fail. All advanced courses taken for the minor must be passed with a grade of *C-* or better. 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	HIST 1311, 1312, 1321, 1322, 1323, 4300, 4375, 4376, 4397, 4398, 4399
United States History	HIST 1321, 2311, 2312, 2318, 2320, 2337, 2380, 2398, 3301, 3304–14, 3316, 3318–22, 3324, 3327, 3336, 3342, 3346–48, 3364, 3369, 3370, 3372, 3379, 3384, 3388, 3391, 3394, 3399, 3401, 4304, 4354, 5305, 5309, 5310, 5312, 5330, 5331, 5340, 5341, 5344, 5345, 5377
European History	HIST 1303, 1322, 2321, 2323, 2346, 2350, 2351–54, 2365, 2366, 3302, 3303, 3328, 3329, 3330, 3332–35, 3337–41, 3343–45, 3350–68, 3373–76, 3381, 3383, 3385, 3397, 4319, 4320, 4363, 4372, 4373, 4384, 4385, 5338, 5364, 5367, 5370–76, 5374–76, 5380, 5390–92
African, Asian, Latin American and Middle Eastern History	HIST 1323, 2355, 2379, 2384, 2385, 2390–95, 3315, 3323, 3325, 3326, 3371, 3377, 3378, 3380, 3382, 3386, 3387, 3389, 3390, 3392, 3393, 3395, 3396, 3398, 5330, 5331, 5382, 5387, 5395, 5397
SMU Abroad Courses	HIST 2100, 2200, 3100, 3200, 3300

HIST 1303 (3). 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.

HIST 1311 (3). WESTERN CIVILIZATION TO 1527. A survey of the cultural phenomenon often called Western civilization from its prehistoric roots in western Asia and Europe; through ancient Mesopotamian and Egyptian civilization; to the Greeks, Romans, and the medieval experience; and up to the Renaissance. Lecture course, with much reference to literature and visual arts.

HIST 1312 (3). WESTERN CIVILIZATION SINCE 1527. An introductory survey of Western civilization from about the time of the Reformation to the present.

HIST 1321 (3). INTRODUCTORY TOPICS IN AMERICAN HISTORY. Offers the first- or second-year student the opportunity for intensive exploration of particular topics in American history in a small-class setting.

HIST 1322 (3). INTRODUCTORY TOPICS IN EUROPEAN HISTORY. Offers the first- or second-year student the opportunity for intensive exploration of particular topics in European history in a small-class setting.

HIST 1323 (3). INTRODUCTORY TOPICS IN NON-WESTERN HISTORY. Offers the first- or second-year student the opportunity for intensive exploration of particular topics in non-Western history in a small-class setting.

HIST 2100 (1). HISTORY STUDIES ABROAD. SMU credit for history courses taken in University-approved programs abroad.

HIST 2200 (2). HISTORY STUDIES ABROAD. SMU credit for history courses taken in University-approved programs abroad.

HIST 2311 (3). 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.

HIST 2312 (3). 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.

HIST 2313 (3). HISTORY OF AFRICAN-AMERICAN POPULAR CULTURE, 1890–1980. Investigates the forces that shaped post-emancipation African-American popular entertainment, fashion, and mannerisms, with a focus on 1890–1980.

HIST 2318 (3). 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. Emphasis on relationships among schools, families, and changing social and political ideals.

HIST 2320 (3). SOCIETY AND LIFE IN TEXAS.

HIST 2321 (3). PHILOSOPHICAL AND RELIGIOUS THOUGHT IN THE MEDIEVAL WEST. 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.

HIST 2323 (3). RUSSIAN CULTURE. Significant aspects of Russian thought and culture at various stages of development, illustrated by examples from poetry, prose, drama, journalism, architecture, the fine arts, and music.

HIST 2337 (3). HISTORY OF SPORTS IN THE UNITED STATES. The social, cultural, and business history of sport in the U.S. Focus on the cultural meaning and ethical components of sports in the 19th and 20th centuries.

HIST 2346 (3). 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)

HIST 2350 (3). 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.

HIST 2351 (3). 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.

HIST 2352 (3). GREEK MYTHOLOGY AND HISTORY. Introduction to Greek mythology in its original ancient context, through primary sources (Greek plays, poems, and works of art).

HIST 2353 (3). 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.

HIST 2354 (3). 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.

HIST 2355 (3). 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.

HIST 2365 (3). EUROPE IN THE MODERN WORLD, RENAISSANCE TO 1760. An introductory survey of the growth of European civilization.

HIST 2366 (3). EUROPE IN THE MODERN WORLD, 1760 TO THE PRESENT. A continuation of HIST 2365.

HIST 2379 (3). A HISTORY OF ISLAMIC EMPIRES. Introduces the history of various Islamic empires and covers the period from 600 to 1750.

HIST 2380 (3). ETHNIC REGIONS IN THE WESTERN WORLD. An interdisciplinary course that examines the ways regional ethnic minorities such as the Basques, Quebecois, and Chicanos have functioned within larger societies in Western Europe and North America.

HIST 2384 (3). LATIN AMERICA: THE COLONIAL PERIOD. An introductory survey covering the development of Latin American society from prediscovery to the early 19th century.

HIST 2385 (3). 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.

HIST 2390 (3). 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.

HIST 2391 (3). 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.

HIST 2392 (3). 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.

HIST 2393 (3). 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.

HIST 2394 (3). 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.

HIST 2395 (3). 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.

HIST 2398 (3). AMERICAN POLITICS AND CULTURE, FDR TO OBAMA. Examines life and culture in modern America.

HIST 3100 (1). HISTORY STUDIES ABROAD. SMU credit for history courses taken in University-approved programs abroad.

HIST 3200 (2). HISTORY STUDIES ABROAD. SMU credit for history courses taken in University-approved programs abroad.

HIST 3300 (3). HISTORY STUDIES ABROAD. SMU credit for history courses taken in University-approved programs abroad.

HIST 3301 (3). HUMAN RIGHTS: AMERICA'S DILEMMA. This course examines violations of human rights within their historical contexts and explores the foundations of current human rights issues such as torture, terrorism, slavery, and genocide. Attention is given to the evolution of civil and human rights as entities within global political thought and practice.

HIST 3302 (3). GEORGIAN AND VICTORIAN ENGLAND, 1714–1867. The political, social, and economic institutions of Britain and their development in the 18th and 19th centuries.

HIST 3303 (3). 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.

HIST 3304 (3). AFRICAN AMERICANS 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.

HIST 3305 (3). THE HISPANOS OF NEW MEXICO, 1848–PRESENT. History of the Mexican-American subculture of New Mexico. Field trips to historical sites. (SMU-in-Taos)

HIST 3306 (3). 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.

HIST 3307 (3). 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.

HIST 3308 (3). 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 on TV and in film, video, and movies.

HIST 3309 (3). 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.

HIST 3310 (3). PROBLEMS IN AMERICAN HISTORY. Explores historical issues or trends in U.S. history will be explored using a case study or comparative format.

HIST 3311 (3). 19TH-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.

HIST 3312 (3). WOMEN IN AMERICAN HISTORY TO 1900. Surveys the history of American women from the Colonial era to 1900 and introduces the major themes organizing these three centuries of U.S. women's history.

HIST 3313 (3). 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.

HIST 3314 (3). AFRICAN AMERICANS IN THE UNITED STATES, 1877 TO THE PRESENT. Particular attention will be given to populism, disfranchisement, segregation and lynching, black leadership ideologies, the influence of mass migrations, the impact of the Great Depression and two world wars on black life, the quest for equality in the 1950s and the civil rights movement in the 1960s, and the flowering of black culture and nationalism.

HIST 3315 (3). MODERN SOUTH ASIA: COLONIALISM AND NATIONALISM. Political history of South Asia from the 18th century onward, focusing on the period of British colonial rule, nationalist movements, and independence.

HIST 3316 (3). HISTORY OF SEX IN AMERICA. This course will test the hypothesis that gender and sexuality are constructed categories. Readings in anthropology, history, literary criticism, and psychiatry will be utilized.

HIST 3317 (3). PERSECUTION TO AFFIRMATION: SEXUAL MINORITIES AND HUMAN RIGHTS. Examines same-sex sexuality comparatively, using interdisciplinary readings, beginning with the Americas before European contact and then focusing on Europe, Asia, and Africa through time up until the present day.

HIST 3319 (3). TEXAS HISTORY. Texas as a crossroad of cultures from the 16th century to the present.

HIST 3320 (3). THE SPANISH FRONTIER IN NORTH AMERICA, 1513–1821. The exploration, colonization, and development of the South and Southwest under Spanish rule, 1513 to 1821, including interaction with Indian peoples.

HIST 3321 (3). RELIGION IN THE UNITED STATES TO 1865. Investigates the foundations of American religious culture, including native, African, and European traditions; colonization; early evangelicalism; the Revolutionary War; and the religious culture of the new United States.

HIST 3322 (3). NATIVE AMERICAN HISTORY. Examines the roles Native Americans played in the history of North America (excluding Mexico) from 1500 to the present.

HIST 3323 (3). HISTORY OF ISLAM IN SOUTH ASIA. A cultural history of Islam in South Asia focusing on the sacred practices, literature, and institutions of Muslim communities in the Indian subcontinent from 1000 C.E. to modern times.

HIST 3324 (3). 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.

HIST 3325 (3). ISLAM AND POLITICS. This course aims to familiarize students with the basics of Islam and explore the relationship between Islam as a religion and Islam as ideology.

HIST 3326 (3). 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.

HIST 3327 (3). WOMEN IN AMERICAN HISTORY FROM 1865. Surveys the history of American women from 1865 to the present and introduces the major themes organizing this period of U.S. women's history.

HIST 3328 (3). 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.

HIST 3329 (3). WOMEN IN EARLY MODERN EUROPE. A study of the influence of women in European society and intellectual movements from the Renaissance through the Enlightenment.

HIST 3330 (3). 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.

HIST 3332 (3). 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.

HIST 3333 (3). 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.

HIST 3334 (3). 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.

HIST 3335 (3). 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.

HIST 3336 (3). CULTURAL HISTORY OF THE UNITED STATES. Analysis of the literature, art, architecture, music, drama, popular amusements, and social customs of America since 1877.

HIST 3337 (3). ETHICAL DILEMMAS IN A GLOBAL AGE. A cross-cultural exploration of major ethical problems emanating out of the radically changing context of human existence in recent decades.

HIST 3338 (3). HISTORY OF SPAIN TO 1492. 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 the European requirement.)

HIST 3339 (3). HISTORY OF SPAIN, 1469 TO THE PRESENT. The main social, political, and cultural topics of the history of the Iberian Peninsula from Columbus to the present. (For history majors, fulfills only the European requirement.)

HIST 3340 (3). 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.

HIST 3341 (3). SOVIET AND POST-SOVIET SOCIETY AND POLITICS, 1917 TO THE PRESENT. Soviet, Russian, and 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, 1917–1921.

HIST 3342 (3). UTOPIAN PERSPECTIVE ON THE AMERICAN SOUTHWEST. Focuses on the American Southwest when the region became a homeland of the imagination for those fleeing the modern, industrial culture of the West.

HIST 3343 (3). 20TH-CENTURY EUROPE. History of 20th-century Europe. Offered through international programs only.

HIST 3344 (3). 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)

HIST 3345 (3). 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)

HIST 3346 (3). THE 20TH-CENTURY AMERICAN WEST. Examines the American West in the 20th century, emphasizing major social, 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.

HIST 3347 (3). 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.

HIST 3348 (3). 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 have been shaped by social and historical change.

HIST 3349 (3). IMAGES OF POWER. Using art, literature, history, and philosophy, this course explores the social, political, and intellectual life of the Parisian aristocracy and elite of the 17th century in its architectural setting. The Bourbon monarchs were well aware that the arts were instrumental to the construction of the absolutist state. As the course is set both intellectually and physically in Paris, the architectural monuments encourage students to make immediate connections between what they read and what they see. (SMU Abroad)

HIST 3350 (3). A HISTORY OF ANCIENT EGYPT. A history of ancient Egyptian civilization from construction of the pyramids to conquest by the Romans, explored through Egyptian literature, archaeology, and artifacts.

HIST 3351 (3). HISTORY OF ANCIENT NEAR EAST. Introduction to the civilizations, art, literature, and archaeology of the ancient Near East, from the origins of writing to conquest by Alexander the Great.

HIST 3352 (3). 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.

HIST 3353 (3). 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.

HIST 3354 (3). WARFARE AND DIPLOMACY IN ANTIQUITY. A study of the methods both of waging and of averting war in antiquity.

HIST 3355 (3). CLASS AND GENDER IN ANCIENT SOCIETY. An examination of class and gender in the ancient world, with emphasis on changing definitions of masculinity and femininity in Greek and Roman culture, as well as the position, rights, and interactions of different groups (e.g., free and slave, citizen and foreigner, soldier and civilian).

HIST 3356 (3). CITY OF LIGHT, CITY OF CHANGE: PARIS IN THE MODERN ERA. This course describes the experience of living in Paris beginning in the Old Regime to the modern era. It focuses on the social, cultural and physical aspects of life in the largest urban region of France as it underwent Revolution, class conflict, rebuilding, a flourishing of the arts, war and occupation, and political uncertainty to the present day. The course consists of lectures, readings, discussion and site visits. Evaluation will be by weekly writing assignments and a final exam. The course will use as text Colin Jones, Paris: Biography of a City (2004); Lewis Mumford, The City in History (1961); and Balzac's novel Old Goriot (1835). Lectures will cover a wide variety of topics on the development of Paris since 1789. City of Light, City of Change will include informative cultural trips to sites in Paris and nearby, as well as trips to Bayeux and Strasbourg. (SMU-in-Paris)

HIST 3357 (3). JOAN OF ARC: HISTORY, LITERATURE, AND FILM. The life and later reception of the extraordinary peasant girl Joan of Arc (c. 1412–1431), who in 2 years changed the course of European history before she was burned at the stake.

HIST 3358 (3). THE RENAISSANCE. A history of culture in the Renaissance from the perspective of advances in scholarship and science, and above all, in appreciation of social and political contexts.

HIST 3359 (3). 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.

HIST 3360 (3). 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.

HIST 3361 (3). ROMAN HISTORY AND THE ROMAN MIND. The development of Roman civilization from its earliest beginnings to the dawn of the Middle Ages.

HIST 3362 (3). THE VIKINGS. Traces the rise of small Scandinavian communities into powerful communities of raiders, conquerors, and colonizers during the Viking Age (c. 8th–12th centuries).

HIST 3363 (3). 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.

HIST 3364 (3). CONSUMER CULTURE IN THE UNITED STATES, 1700–1990. The business, cultural, and political history of the rise of the consumer culture in the U.S., with a focus on the development of institutions, ideas, and practices centered on consumption.

HIST 3365 (3). 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.

HIST 3366 (3). 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.

HIST 3367 (3). 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.

HIST 3368 (3). 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.

HIST 3369 (3). 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.

HIST 3370 (3). 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.

HIST 3371 (3). CONFLICTS IN THE MODERN MIDDLE EAST. Examines the Arab-Israeli conflict, other regional conflicts, and the U.S.-Soviet Cold War in the Middle East.

HIST 3372 (3). THE SOUTH IN AMERICAN HISTORY. Explores the origin, development, and present and future status of the South's position in America.

HIST 3373 (3). SCIENCE, RELIGION, AND MAGIC IN EARLY MODERN ENGLAND. A study of the interaction of three ways of thinking about nature and the place of human beings within nature – science, magic and religion. 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.

HIST 3374 (3). 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.

HIST 3375 (3). SOCIAL HISTORY OF EARLY MODERN EUROPE. Studies European social and cultural development from the Renaissance to the French Revolution.

HIST 3376 (3). SOCIAL AND INTELLECTUAL HISTORY OF EUROPE. Covers European social, cultural, and intellectual development from 1848 to the present.

HIST 3377 (3). 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.

HIST 3378 (3). 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.

HIST 3379 (3). A CULTURAL HISTORY OF NEW MEXICO. Explores the history of struggles among the state's dominant ethnic groups – Native Americans, Hispanos, and Anglos – over rituals, spaces, and objects. (SMU-in-Taos)

HIST 3380 (3). 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.

HIST 3381 (3). THE FIRST WORLD WAR AND ITS IMPACT. This course explores the origins as well as the geopolitical, social, cultural, and economic impact of the Great War on Europe and the wider world.

HIST 3382 (3). HISTORY OF MEXICO. Covers pre-Columbian, colonial, and independent Mexico. Culture and social developments are stressed.

HIST 3383 (3). 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.

HIST 3384 (3). HISTORY OF THE CONSUMER ECONOMY IN THE UNITED STATES. The history of the production, distribution, and marketing of consumer goods and services in the United States since 1750.

HIST 3385 (3). 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.

HIST 3386 (3). ORIENT AND OCCIDENT: ENCOUNTERS BETWEEN THE MIDDLE EAST AND THE WEST IN THE MODERN ERA. Explores major themes in relations between the countries and cultures of the Middle East and Western Europe from the early modern era to the present, beginning with Napoleon's invasion of Egypt in 1798.

HIST 3387 (3). 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.

HIST 3388 (3). THE AFRICAN-AMERICAN URBAN EXPERIENCE, 1865–1980. A history of African Americans in American cities during the post-Civil War era. Investigates the forces that inspired African Americans to relocate to urban areas and surveys the dynamic lifestyles created within evolving African-American urban communities, the long periods of major African-American rural-to-city migration, and institution building. Also, African-American politics, economics, race relations, and social life.

HIST 3389 (3). 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.

HIST 3390 (3). MODERN MIDDLE EAST: 1914 TO PRESENT. This survey course introduces students to history and politics of the contemporary Middle East.

HIST 3391 (3). 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, theater, Hollywood, television, and professional sports.

HIST 3392 (3). 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.

HIST 3393 (3). 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.

HIST 3394 (3). THE NEW WOMAN: THE EMERGENCE OF MODERN WOMANHOOD IN THE U.S., 1890–1930. Explores the experiences of a variety of women during 1890 to 1930, including feminists, reformers, intellectuals, artists, working women, mothers, high school and college students, and juvenile delinquents.

HIST 3395 (3). PROBLEMS IN ASIAN HISTORY. Explores historical issues, trends or special topics in Asian history will be explored using a thematic or comparative format.

HIST 3396 (3). MIDDLE EASTERN ECONOMIC HISTORY. Examines economic patterns in Middle Eastern history, politics, and social life from the 18th century until the present.

HIST 3397 (3). 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.

HIST 3398 (3). 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.

HIST 3399 (3). 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.

HIST 3401 (4). 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 students in understanding issues of race, gender, ethics, and power essential to any meaningful evaluation of society.

HIST 4101 (1). INDEPENDENT STUDY. Independent study of a selected topic in history under the direction of a faculty member.

HIST 4300 (3). 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 are different in each section and organized around a topic chosen by the instructor. Closely supervised writing assignments, based upon the required readings, grow into a major research project by the end of the term.

HIST 4304 (3). AT THE CROSSROADS: GENDER AND SEXUALITY IN THE SOUTHWEST. Approaches the study of New Mexico, and by extension the Southwest, through the lens of gender and sexuality. Examines the area's history and changes over time.

HIST 4314 (3). JEWS IN EUROPE: MIDDLE AGES TO THE PRESENT. History of the Jews in Europe from the Middle Ages to the present.

HIST 4315 (3). HISTORY OF EAST CENTRAL EUROPE.

HIST 4319 (3). MEDIEVAL FORMATION OF ENGLISH CULTURE. When, where, and how was English culture – that globally widespread and distinctive variation of Western culture – formed? In the eighth to 16th centuries, in a realm with Oxford at its center.

HIST 4320 (3). MEDIEVAL EUROPE I. History of medieval Europe.

HIST 4321 (3). MEDIEVAL EUROPE II.

HIST 4322 (3). LEGAL HISTORY OF MEDIEVAL ENGLAND.

HIST 4323 (3). HISTORY OF IRELAND.

HIST 4324 (3). MEDIEVAL SPIRITUALITY.

HIST 4325 (3). ISLAM TO A.D. 1453.

HIST 4326 (3). ANGLO-SAXON ENGLAND TO 1160.

HIST 4327 (3). INDIA BEFORE THE EUROPEANS.

HIST 4354 (3). 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.

HIST 4363 (3). INSIDE NAZI GERMANY. The reality beneath the spectacle of the Nuremberg rallies and the efficiency of the totalitarian state.

HIST 4365 (3). MAKING OF AUSTRALIAN SOCIETY. Examines the working of Australian society with special emphasis given to either the 19th or 20th century or to particular themes such as the impact of war, the response of the Australians to booms and depressions, and Australian national character.

HIST 4372 (3). HISTORY OF FRANCE I. A study of the history of France.

HIST 4373 (3). HISTORY OF MODERN FRANCE. A study of the history of modern France.

HIST 4375 (3). DEPARTMENTAL DISTINCTION. Honors program open to qualified seniors by invitation of the department.

HIST 4376 (3). DEPARTMENTAL DISTINCTION. Honors program open to qualified seniors by invitation of the department.

HIST 4384 (3). 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.

HIST 4385 (3). TUDOR AND STUART ENGLAND, 1485 TO 1714. The emergence of the modern British state and societies in the 16th and 17th centuries.

HIST 4388 (3). GEORGIAN AND VICTORIAN ENGLAND. The history of Georgian and Victorian England 1714–1867.

HIST 4397 (3). 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 2.500 overall GPA.

HIST 4398 (3). INDEPENDENT STUDY. History majors in their junior year may apply 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.

HIST 4399 (3). INDEPENDENT STUDY. History majors in their junior year may apply 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.

HIST 5305 (3). SEMINAR IN HISPANIC-AMERICAN BORDERLANDS. Study of the historiography of the social interactions among varied peoples along the native, colonial, and national borders of Hispanic America, particularly those borders shaping the United States.

HIST 5309 (3). SEMINAR IN NORTH AMERICAN BORDERLANDS. Study of the historiography of the social interactions among varied peoples along the native, imperial, and national borders of the North American continent, particularly those shaping the United States.

HIST 5310 (3). SEMINAR ON THE AMERICAN WEST. Introduction to the historiography of the American West and its contested meanings.

HIST 5312 (3). SEMINAR ON NATIVE AMERICAN HISTORY. Introduction to the historiography of Native Americans in United States history.

HIST 5330 (3). SEMINAR IN MEXICAN-AMERICAN HISTORY. An examination of the growing historiography on Mexican Americans that focuses on the relationship between their ethnic identity and the Southwest. (Also listed under Latin American history.)

HIST 5331 (3). SEMINAR IN MEXICAN-AMERICAN HISTORY. An examination of the growing historiography on Mexican Americans that focuses on the relationship between their ethnic identity and the Southwest. (Also listed under Latin American history.)

HIST 5338 (3). 20TH-CENTURY ENGLAND. A study of the decline and fall of 20th-century England.

HIST 5340 (3). SEMINAR IN AMERICAN HISTORY. Intensive examination of major topics in American history.

HIST 5341 (3). SEMINAR IN AMERICAN HISTORY. Intensive examination of major topics in American history.

HIST 5344 (3). 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.

HIST 5345 (3). INDUSTRIALISM AND REFORM IN THE U.S., 1877–1919. An investigation of life in America in the Gilded Age and the Progressive Era, including industrialization, urbanization, and social conflict.

HIST 5364 (3). 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.

HIST 5367 (3). 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.

HIST 5370 (3). SEMINAR IN FRENCH HISTORY. An examination of key historians and of the several modes of historiographical writing that shape the vision of premodern France.

HIST 5371 (3). THE FRENCH REVOLUTION AND NAPOLEON, 1789–1815. The nature and causes of revolution, the French Revolution, and the career of Napoleon Bonaparte.

HIST 5374 (3). 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 past 30 years.

HIST 5375 (3). EUROPE IN THE AGE OF LOUIS XIV. The scientific revolution, the culture of the Baroque era, and development of the European state system under the impact of the Thirty Years' War and the wars of Louis XIV.

HIST 5376 (3). EUROPE AGE OF ENLIGHTENMENT, 1715–1789. A study of society and culture in 18th-century Europe, Enlightenment philosophies, rococo art, the classical age of music, enlightened despotism, and the coming of the French Revolution.

HIST 5377 (3). THE UNITED STATES AND THE COLD WAR. History of the U.S. and the Cold War.

HIST 5380 (3). AUGUSTUS AND THE ROMAN EMPIRE. After 100 years of civil war, the first Roman emperor, Augustus, inaugurated the 250-year Roman Peace that transformed government, society, art, and culture across the Roman Empire.

HIST 5382 (3). SEMINAR IN LATIN AMERICAN HISTORY. Intensive examination of major topics in Latin American history.

HIST 5387 (3). SEMINAR IN AFRICAN HISTORY. Intensive examination of special topics in African history.

HIST 5390 (3). SEMINAR IN RUSSIAN HISTORY. This advanced seminar covers selected topics in late Imperial Russian and Soviet history.

HIST 5391 (3). ATHENIAN DEMOCRACY. This seminar will examine the development of democratic government in Athens and study the functioning of that government in peace and in war.

HIST 5392 (3). SEMINAR IN EUROPEAN HISTORY. Intensive examination of major topics in European history.

HIST 5395 (3). A HISTORY OF IRAN. This seminar aims to introduce students to the history, cultures, and peoples of Iran and familiarize them with this complex and increasingly important country.

HIST 5397 (3). SEMINAR IN ASIAN HISTORY. Intensive examination of major topics in Asian history.

INTERDISCIPLINARY PROGRAMS AND COURSES

Biochemistry Program

www.smu.edu/biochemistry

Professor Steven Vik, **Director**

Bachelor of Science With a Major in Biochemistry

The B.S. degree in biochemistry 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. Students planning to attend graduate school are advised to take at least three credits of undergraduate research (**BIOL 3398, 4398** or **CHEM 4397**).

Note: 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 biochemistry majors.

Students obtaining a B.S. degree in biochemistry may not also obtain a major or minor in chemistry or biology.

Requirements for the Major	*Credit Hours*
Core Chemistry Courses	25
CHEM 1303, 1304, 1113, 1114 General Chemistry	
CHEM 3351 Quantitative Analysis	
CHEM 3371, 3372, 3117, 3118 Organic Chemistry	
CHEM 5383, 5384 Physical Chemistry	
Core Biological Sciences Courses	11
BIOL 1401, 1402 Introductory Biology	
BIOL 3304 Genetics	
Core Biochemistry Courses	4
BIOL/CHEM 5310 Biological Chemistry: Macromolecular Structure and Function	
BIOL/CHEM 5110 Biological Chemistry: Laboratory	
Core Mathematics Courses	9
MATH 1337, 1338, 2339 Calculus	
Core Physics Courses	8
PHYS 1105, 1106, 1303/1307, 1304/1308 General Physics	
Additional Courses (Option 1 or Option 2)	9–11
Option 1 (11 credits)	
Required (8 credits)	
CHEM 4397 Undergraduate Research	
CHEM 5185 Laboratory Methods in Physical Chemistry	
CHEM 5192 Inorganic Synthesis Laboratory	
CHEM 5392 Advanced Inorganic Chemistry	
Electives (choose 3 credits)	
BIOL/CHEM 5311 Biological Chemistry: Metabolism	
or **BIOL/CHEM 5312** Physical Biochemistry	

Additional Courses (continued)	
Option 2 (9 credits)	
Required (6 credits)	
BIOL 3350 Cell Biology	
BIOL/CHEM 5311 Biological Chemistry: Metabolism	
Electives (choose 3 credits)	
BIOL/CHEM 5311 Biological Chemistry: Metabolism	
BIOL/CHEM 5312 Physical Biochemistry	
or **BIOL 5304** Molecular Biology: Control and Expression of Genetic Information	
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Departmental Distinction

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 and must have completed at least 22 hours toward the biochemistry degree with a GPA of at least 3.500 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 all degree requirements, the senior thesis and maintenance of a GPA of at least 3.500 in courses required for the major, the B.S. degree will be awarded with departmental distinction.

Classical Studies Program

Associate Professor Melissa Dowling, **Director**

Minor in Classical Studies

The minor in classical studies 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:

Requirements for the Minor	*Credit Hours*
Classical Languages	6
LATN 2311, 2312 *or* other advanced Latin courses *or* classical Greek at the 2000 level, when available	
Classical Studies (at least one course from each group)	12
Group 1: Art History	
ARHS 1303 Introduction to Western Art I: Prehistoric Through Medieval	
ARHS 3303 Archaeological Field Methods of Italy (3 hours on the excavation)	
ARHS 3312 Etruscan and Roman Art	
ARHS 3313 Etruscan and Iron Age Italy	
ARHS 3314 The Art and Architecture of Ancient Pompeii	
ARHS 3316 Art in Rome (SMU-in-Rome)	
ARHS 3317 Ancient Painting	
ARHS 3319 Art of the Roman Empire	
ARHS 3603 Archaeological Field Methods of Italy (6 hours on the excavation)	
ARHS 4310 Seminar in Ancient Art	
CLAS 3311 Mortals, Myths, 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	
ARHS 3603 Archaeological Field Methods of Italy	
CLAS 2311 Myth and Thought in the Ancient World	
CLAS 3312 Classical Rhetoric	
LATN 3323 Latin Literature	
LATN 3324 Advanced Latin Grammar and Composition	
LATN 3325 Advanced Latin Readings and Composition	
LATN 3326 Advanced Latin Readings: Vergil	
LATN 3335 Medieval Latin	
RELI 3320 Introduction to Classical Judaism	
RELI 3326 Introduction to New Testament	
RELI 3349 Early Christianity	
RELI 3371 The World of the New Testament	
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CLAS 2311 (3). 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 both ancient and modern times. Materials for investigation will be primarily textual, including myths, epics, tragedies, and philosophical discourse in ancient Greece.

CLAS 2332 (3). 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.

CLAS 3311 (3). 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.

CLAS 3312 (3). 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.

Environmental Sciences Program

www.smu.edu/esp

Professor John Walther, **Director**

Bachelor of Science With a Major in Environmental Sciences

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 postgraduate 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 come together their senior year in a multidisciplinary seminar in environmental science. Juniors and seniors may do an internship (e.g., with a nonprofit agency, an environmental lawyer, or an assessment and remediation company) for course credit and by special arrangement.

The environmental sciences major requires 68 total hours, consisting of 50 hours of core classes and 15–18 hours of electives taken with an emphasis in chemistry, Earth science or biology.

Requirements for the Major	*Credit Hours*
Core Biology Courses	7
BIOL 1402 Introductory Biology II	
BIOL/GEOL 3307 Ecology	
Core Chemistry Courses	15–16
CHEM 1303/1113 General Chemistry I and Lab	
CHEM 1304/1114 General Chemistry II and Lab	
CHEM 3371/3117 Organic Chemistry I and Lab	
CHEM 3372/3118 Organic Chemistry II and Lab	
or **CHEM 3351** Quantitative Analysis	
Core Earth Sciences Courses	11
GEOL 1301 Earth Systems	
or **GEOL 1315** Introduction to Environmental Sciences	
GEOL 3451, 3452 Earth Materials I, II	
Core Environmental Science Course	3
GEOL 3363 Environmental Geology Seminar	

Core Mathematics Courses	6
MATH 1337, 1338 Calculus With Analytic Geometry I, II	
Core Physics Courses	8
PHYS 1303/1105 Introductory Mechanics and Lab	
or **PHYS 1307/1105** General Physics I and Lab	
PHYS 1304/1106 Introductory Electricity/Magnetism, Lab	
or **PHYS 1308/1106** General Physics II and Lab	
Emphasis Courses (chosen from one area of emphasis)	15–18
Chemistry Emphasis (15–16 credits):	
CHEM 3372/3118 Organic Chemistry II and Lab	
or **CHEM 3351** Quantitative Analysis	
CHEM 5383 Physical Chemistry I	
Electives (9 or more credits from the following):	
CHEM 4397 Research	
CHEM 5390 Environmental Chemistry	
GEOL 3353 Modern and Ancient Climates	
GEOL 3366 Environmental Geology/Geochemical Cycles	
GEOL 5384 Hydrogeology	
GEOL 5386 Geochemistry	
ME 5317 Groundwater Hydrology and Contamination	
Earth Sciences Emphasis (18 credits from the following):	
CEE 3341 Intro to Solid/Hazardous Waste Management	
CHEM 3351 Quantitative Analysis	
CHEM 3372/3118 Organic Chemistry II and Lab	
CHEM 5383 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, 4298 Senior Thesis Research Project	
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 Introduction to Statistical Methods	
or **STAT 4340** Statistical Methods for Engineers and Applied Scientists	
Biology Emphasis (18 credits)	
BIOL 1401 Introductory Biology I	
Electives (14 or more credits from the following):	
BIOL 3303 Evolution	
BIOL 3304 Genetics	
BIOL 3305 Aquatic Biology	
BIOL 3306 Physiology	
BIOL 3311 Tropical Ecology/Sustainable Development (SMU-in-Costa Rica)	

Biology Emphasis Electives (continued)

BIOL 3312 Wildlife Ecology (SMU-in-Kenya)
BIOL 3342 Plant Kingdom
BIOL 3343 Field Botany (SMU-in-Taos)
BIOL 3347 Systematic Botany (SMU-in-Taos)
BIOL 3354 Parasitology
BIOL 3357 Biology of the Invertebrates
BIOL 3403 Microbiology
BIOL 4360 Environmental Toxicology
BIOL 5366/5166 Vertebrate Anatomy and Origins, Lab
BIOL 5311/5110 Biological Chemistry: Metabolism, Lab
BIOL 5311 Biological Chemistry: Metabolism
GEOL 3353 Modern and Ancient Climates

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The Courses (ENSC)

ENSC 3100 (1). 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.

ENSC 3200 (2). 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.

ENSC 3300 (3). 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.

ENSC 3310 (3). ECONOMIC AND ETHICAL ISSUES IN SUSTAINABLE DEVELOPMENT. Addresses and applies 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 are presented and applied to the local people, government, and aid agencies for the implementation of sustainable development models. (SMU-in-Costa Rica only)

ENSC 3312 (3). 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)

ENSC 3313 (3). TECHNIQUES IN WILDLIFE MANAGEMENT. Introduces 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)

ENSC 3316 (3). 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)

ENSC 3322 (3). 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 Program

www.smu.edu/environmentalstudies

Professor John Walther, **Director**

Bachelor of Arts With a Major in Environmental Studies

The B.A. in environmental studies provides students with the tools necessary to address society's environmental problems through careers in government, non-governmental or educational organizations, public policy, business, and related fields. This interdisciplinary program incorporates courses from numerous departments and three schools in 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.

The environmental studies core classes provide the student with the appropriate concepts and tools to understand the scope of global, regional and local environmental issues. Elective credit hours are chosen in consultation with an academic adviser, with at least one course from each of the three groups listed below. A senior thesis is required, with a field, research or other practical component taken in a department relevant to the student's interest (e.g., **ANTH 4391** or **4392** Independent Study, **JOUR 5308** Honors Thesis, **ECON 4398** Departmental Distinction in Economics or **GEOL 4399** Integrative Research.

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. Approved SMU Abroad courses can also count as elective courses.

Requirements for the Major	*Credit Hours*
Core Courses	21
BIOL/GEOL 3307 Ecology	
GEOL 1301 Earth Systems	
GEOL 3353 Modern and Ancient Climates	
HIST 3309 North American Environmental History	
PP 3310 Environmental Policy	
STAT 2331 Introduction to Statistical Methods	
or **STAT 2301 Statistics for** Modern Business Decisions	
One thesis-related course	
Elective Courses	15
Natural Sciences and Statistics (minimum of 3 hours)	
BIOL 3303 Evolution	
BIOL 3308 Biology of Marine Mammals	
BIOL 3309 Marine Biology of European Coastal Waters	
BIOL 3310 Ecology and Human Impact in the North and Baltic Seas	
BIOL 3342 Plant Kingdom	
BIOL 3343 Field Botany	
CEE 2421 Aquatic Chemistry	

Elective Courses

Natural Sciences and Statistics (continued)

ENSC 3313 Techniques in Wildlife Management
GEOL 3330 Resources and the Environment
GEOL 3340 Face of the Earth
GEOL 3359 Computer Methods in Geological Sciences
GEOL 3363 Environmental Geology Seminar
GEOL 3366 Environmental Geology/Geochemical Cycles
GEOL 3472 Principles of Sedimentation
GEOL 5370 Global Change
GEOL 5368 Paleoecology
GEOL 5384 Hydrogeology
STAT 3380 Environmental Statistics
STAT 5371, 5372 Experimental Statistics I, II

Social Sciences (minimum of 3 credit hours)

ANTH 3319 Human Ecology
ANTH 3374 Cultures and Environments of the Southwest
ANTH 3384 Paradise Lost? The Archaeology and Ethics of Human Environmental Impacts
ANTH 3385 Sustainable Living
ANTH 4346 Environmental Anthropology
ECO 4366 Economics of the Public Sector
ECO 4382 Economics of Regulated Industries
ECO 5301 Environmental Economics
ECO 5360 Economic Development
ECO 5361 Natural Resources and Energy Economics
ENSC 3310 Economic and Ethical Issues in Sustainable Development
ENSC 3311 Principles of Resource Management
ENSC 3315 Environmental Policy/Socioeconomic Values
ENST 3301 Natural Resource/Environmental Economics
HIST 3318 Human History of Natural Disasters
PHIL 3377 Animal Rights
PHIL 3379 Environmental Ethics
SOCI 4321 Immigration and Population Issues

Business and Engineering (minimum of 3 credit hours)

CEE 1301 Environment and Technology: Ecology and Ethics
CEE 1302 Intro to Civil and Environmental Engineering
CEE 2304 Intro to Environmental Engineering and Science
CEE 3341 Intro to Solid/ Hazardous Waste Management
CEE 3355 Environmental Impact Evaluation, Policy, and Regulation
CEE 5325 Disaster Management
MNO 3375 Corporate Social Responsibility and Ethical Leadership
MNO 4371 Leadership and Culture

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ENST 1100 (1). ENVIRONMENTAL STUDIES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 1200 (2). ENVIRONMENTAL STUDIES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 1300 (3). ENVIRONMENTAL STUDIES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 2100 (1). ENVIRONMENTAL STUDIES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 2200 (2). ENVIRONMENTAL STUDIES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 2300 (3). ENVIRONMENTAL STUDIES ABROAD. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 3100 (1). 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.A. degree in environmental studies.

ENST 3200 (2). 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.A. degree in environmental studies.

ENST 3300 (3). 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.A. degree in environmental studies.

ENST 3301 (3). NATURAL RESOURCE AND ENVIRONMENTAL ECONOMICS. Development of the principles of natural resource and environmental economics from an Earth science perspective. Includes supply and demand for energy, mineral, and water resources. Also, sustainability and climate change. *Prerequisite:* ECO 1311. Recommended: GEOL 3330.

ENST 3311 (3). PRINCIPLES OF RESOURCE MANAGEMENT. Introduces 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)

ENST 3315 (3). ENVIRONMENTAL POLICY AND SOCIOECONOMIC VALUES. Introduces the major constituencies that affect African conservation (nongovernmental conservation groups, economic interests, etc.) and their underlying philosophies. Students learn to determine effective approaches to resource management. (SMU-in-Kenya only)

Ethnic Studies Program

Associate Professor Kenneth Hamilton, **Director**

The ethnic studies program offers an interdisciplinary examination of African-American and Mexican-American experiences through the social sciences and humanities. Students receive 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.

Bachelor of Arts With a Major in African/African-American Studies or Mexican-American Studies

The B.A. degree focuses on humanities and, consequently, requires less work in methodology and statistics than the B.S. degree. Courses to fulfill the requirements for these programs should be selected in consultation with the program director. A total of 33 hours are required to complete the major in African and African-American studies, and 34 hours are required to complete the major in Mexican-American studies.

Requirements for the Major	*Credit Hours*
Foundation Courses	6
ETST 2301 (SOCI 3305, CFA 3310) Race and Ethnicity in the United States	
SOCI 3370 Minority-Dominant Relations	
Basic Courses	18–19
African and African-American Studies (18 credit hours)	
HIST 2392 Modern Africa	
HIST 3313 African Americans in the United States, 1607–1877	
HIST 3314 African Americans in the United States, 1877–Present	
Three courses chosen from the following, with two outside of history and at least one at the 3000 level or above:	
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	

Basic Courses	
Mexican-American Studies (19 credit hours)	
ETST 4352 (SPAN 4352) Conversations and Community	
HIST 3324 The Mexican Americans, 1848 to the Present	
SOCI 3372 Chicanos in the Southwest	
SPAN 1401 Beginning Spanish (or higher level)	
Three courses chosen from the following:	
ANTH 3312 Mesoamerican Archaeology	
ARHS 3383 The Ancient Maya	
ARHS 3385 The Aztecs Before and After the Conquest	
ENGL 3363 Chicana/Chicano Literature	
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	
WL 3306 Chicano Literature of the Southwest	
Cross-Cultural Course	3
African/African-American studies students choose from Mexican-American studies courses	
Mexican-American studies students choose from African/ African-American studies courses	
Supporting Courses (6 hours chosen from the following)	6
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/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	
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Bachelor of Science With a Major in African/African-American Studies or Mexican-American Studies

The B.S. includes both humanities and social science. A total of 36 hours are required to complete the major in African and African-American studies, and 37 hours are required to complete the major in Mexican-American studies. The same pattern of courses is required as for the B.A. degree, with the addition of six hours of required methods courses, three of which may substitute for three hours of supporting courses:

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

Minor in African/African-American Studies or Mexican-American Studies

The African and African-American studies minors are each 18 credit hours. The Mexican-American studies minor is 19 credit hours.

Requirements for the Minor

African and African-American Studies

HIST 2392 Modern Africa
HIST 3313 African Americans in the U.S., 1607–1877
HIST 3314 African Americans in the U.S., 1877–Present
Three courses chosen from the following, with two outside of history and at least one at the 3000 level or above:
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

Mexican-American Studies

ETST 4352 (SPAN 4352) Conversations and Community
HIST 3324 The Mexican Americans, 1848 to the Present
SOCI 3372 Chicanos in the Southwest
SPAN 1401 Beginning Spanish (or higher level)
Three courses chosen from the following:
ANTH 3312 Mesoamerican Archaeology
ARHS 3383 The Ancient Maya
ARHS 3385 The Aztecs Before and After the Conquest
ENGL 3363 Chicana/Chicano Literature
HIST 3305 The Hispanos of New Mexico, 1848–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
WL 3306 Chicano Literature of the Southwest

The Courses (ETST)

ETST 2301 (3). INTRODUCTION TO 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.

ETST 2305 (3). INTERNSHIP IN ETHNIC STUDIES. Offers experience in varied careers serving ethnic communities. Opportunities include advertising for public service, community organizing, nonprofit economic development, local historical preservation, and more. Departmental consent required.

ETST 4352 (3). 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. Includes fieldwork and contact hours in the classroom. Aimed at improving oral and listening skills of non-native speakers of Spanish. *Prerequisite:* C- or better in SPAN 3358. Not for heritage or native speakers of Spanish.

Human Rights Program

www.smu.edu/humanrights

Professor of Practice Rick Halperin, **Director**

Bachelor of Arts With a Major in Human Rights

The Embrey Human Rights Program offers an interdisciplinary program introducing students to the study of universally recognized civil, political, economic, social and cultural human rights. The program offers undergraduate majors and minors, lecture programs, and the opportunity for any SMU student to participate in educational travel programs to visit human rights sites worldwide.

The human rights major consists of 30 hours of coursework related to human rights and at least 11 hours in any one world language. Students may also demonstrate proficiency in a world language through testing or other approved means. Given the interdisciplinary nature of the study of human rights, students are required to take a second major or a minor in a related field. Students must also select three elective courses from the approved elective list below (or they may substitute other courses as approved by the director).

Requirements for the Major	*Credit Hours*
Core Courses	12
HRTS/HIST 3301 Human Rights America's Dilemma	
HRTS/WGST 3310 Gender and Human Rights	
PLSC 4334 Politics/Legacies: Civil Rights Movement	
HRTS 4343 Ethics and Human Rights	
Human Rights Tracks	9
Three courses from either track, from at least two departments and with at least 6 hours at the 3000 level or above.	
Gender and Human Rights Track	
ANTH 1321 First-Year Seminar in Anthropology	
ANTH 2301 Introductory Cultural Anthropology	
ANTH 3310 Gender and Sex Roles: A Global Perspective	
ANTH/WGST 3328 Gender Violence	
ANTH 3336 Gender and Globalization	
ANTH 4386 The Archaeology of Gender and Sexuality	
HIST 3312 Women in American History	
HIST/HRTS 3317 Persecution to Affirmation: Sexual Minorities and Human Rights	
HIST 5340 Seminar: Women's Rights in the United States	
PLSC 4339 Women in the Law	
PLSC/HRTS 4344 Gender and World Politics	
SOCI 3371 Sociology of Gender	
SOCI 4373 Class, Race, and Gender Inequalities	
WGST 2309 Lesbian and Gay Literature and Film	
Public Policy and Human Rights Track	
ANTH 3327 Culture Change and Globalization	
ANTH/HRTS 3329 Contesting Development: Global and Local Impacts and Human Rights	
ANTH 3333 The Immigrant Experience	
ANTH/HRTS 3348 Health as a Human Right	
ANTH 3351 Forensic Anthropology: Stories Told by Bones	
ANTH 3353 Indians of North America	

Public Policy and Human Rights Track (continued)

ANTH 3354 Latin America: People, Places, and Power
ANTH 3358 Indians of the Southwest, 16th Century–Present
ANTH 3388 Warfare and Violence
ANTH 4303 Political Economy of Health
ANTH/HRTS 4309 Human Rights, Indigenous Peoples, and Nation States
ENGL 3383 Literary Executions
HIST 2391 Africa to the 19th Century
HIST 2392 Modern Africa
HIST 2395 Modern East Asia
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 3313 African Americans in the U.S., 1607–1877
HIST 3314 African Americans in the U.S., 1877–Present
HIST 3322 Native American History
HIST 3341 Soviet/Post-Soviet Society Politics, 1917–Present
HIST 3371 Conflicts in the Modern Middle East
HIST 3392 The African Diaspora
HIST 3393 China in Revolution
HIST 3401 The Good Society
HIST 4363 Inside Nazi Germany
MNO 3375 Corporate Social Responsibility and Ethical Leadership
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 Japanese Politics and Society
PLSC 3347 Governments and Politics of Africa
PLSC 3348 Governments and Politics of Latin America
PLSC 3352 Governments and Politics of China
PLSC 3358 Governments 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
SOCI 3305/ETST 2301 Race/Ethnicity in the United States
SOCI 3360 Law and Society
SOCI 3363 Crime and Delinquency
SOCI 3370 Minority-Dominant Relations
SOCI 4335 Social Movements
SOCI 4360 Gangs in the United States
SOCI 4364 Correctional Systems

Electives 9

Three courses from at least two departments, if not taken for track 1 or 2 above, with at least 3 hours at the 3000 level or above.

Any **ANTH** (or colisted **HTRS** course), **ETST,** or **WGST** course from track 1 or 2 above.

ANTH 3301/SOCI 3301 Health, Healing, and Ethics
ANTH 3311 Mexico: From Conquest to Cancun
ANTH 4305 Applied Anthropology
ANTH 4386 The Archaeology of Gender and Sexuality
ARHS 1338 Chicano Art and the Politics of Place
ARHS 3310 War, Looting, Collecting in the Ancient World
ARHS 3334 The Look of Freedom
ARHS 3388 Why We Go to Auschwitz
ENGL 1365 Literature of Minorities
ENGL 3367 Ethical Implications of Children's Literature
ENGL 3377 Literature/Construction of Homosexuality
ENGL 3383 Literary Executions
ENGL 3385 Literature of the Holocaust (colisted with **HRTS 3385**)
FREN 4376 Introduction to Francophone Cultures
Any **HIST** course from track 1 or 2 above.
HIST 3363 The Holocaust
HIST 3377 History of South Africa
HIST 3398 Women in Chinese History
HRTS/ASAG 3315 Art and Social Practice
HRTS/ARHS 3320 War, Looting, and Collecting of Art in the Ancient World
HRTS/WL 3341 The Failure of Humanity in Rwanda
HRTS 3348 Health as a Human Right
HRTS/RELI 3387 Religion and Human Rights
HRTS 4309 Human Rights/Indigenous People
HRTS 4344 Gender in World Politics
HRTS 4390, 4391 Special Topics (for group tour credit)
HRTS 4392 Special Topics
JOUR 4350 Human Rights and the Journalist
MNO 3375 Corporate Social Responsibility and Ethical Leadership
MNO 4371 Leadership and Culture
Any **PHIL** course from track 1 or 2 above.
Any **PLSC** course from track 1 or 2 above.
PSYC 3375 Human Rights From a Psychological Perspective
RELI 3321 Religion and the Holocaust
RELI 3390 Anti-Semitism in Western Civilization
Any **SOCI** or colisted **ETST** course from track 1 or 2 above.
SPAN 3313 Human Rights in Latin America
SPAN 3374 Topics in Spanish-American Civilization
SPAN 5364 Human Rights Issues in Contemporary Spanish Literature
WL/SOCI/COMM 3302 Ethnoviolence: Interdisciplinary Perspectives
WL 3330 Migration, Occupation, and Independence in North African Cinema

WL 3355 Tradition, Community, and Identity in African Cinema	
WL 3362 Postcolonial France	
WL 3370 Shadows of Enlightenment: Human Rights in Germany	
World Language (a single language)	11
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Minor in Human Rights

A human rights minor consists of a minimum of 18 hours of coursework. HRTS/HIST 3301 is required. The remaining 15 hours must be taken from the approved elective list; nine hours of these must be at the advanced level (3000 or above). In addition to HRTS/HIST 3301, no more than two courses from any one department may be taken as electives unless preapproval is given by the director. Students may not earn both the B.A. in human rights and the minor in human rights.

The minor also requires a commitment of students' effort, time and talent in defense of or in advocacy for human rights. Students will complete either a 20-hour service-learning placement with a human rights community-based agency (as a component of HRTS/HIST 3301) or will receive independent credit (HRTS 4390, 4391) by participating in an Embrey Human Rights Program sponsored journey to a location where recent human rights violations have occurred or are occurring (e.g., Cambodia, Rwanda, Poland, Argentina, the U.S.-Mexico border) and completing a research paper on a human rights topic related to the site.

The Courses (HRTS)

HRTS 3301 (3). 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.

HRTS 3309 (3). 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.

HRTS 3310 (3). 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.

HRTS 3315 (3). ART AND SOCIAL PRACTICE. Research in a variety of areas that support practices in art outside the studio, including contemporary developments in criticism and theory, approaches to media, social and community contexts, and specific geographic or cultural contexts. Focused seminar discussion, research, and group projects. *Prerequisite:* Permission of instructor.

HRTS 3317 (3). PERSECUTION TO AFFIRMATION: SEXUAL MINORITIES AND HUMAN RIGHTS. Examines same-sex attractions and same-sex sexuality, which are present in every society, whether in the open or secret.

HRTS 3320 (3). WAR, LOOTING, AND COLLECTING ART IN/OF THE ANCIENT WORLD. Examines the ways war, looting, and collecting affect ancient art. Students analyze case studies of ancient and modern warfare, focusing on resultant destruction, relocation, and repurposing of artworks.

HRTS 3329 (3). CONTESTING DEVELOPMENT: GLOBAL AND LOCAL IMPACTS AND HUMAN RIGHTS. Examines the highly variable impacts of economic development on lives and communities around the world, with a focus on human rights issues.

HRTS 3341 (3). THE FAILURE OF HUMANITY IN RWANDA. An introduction to the 1994 Rwanda genocide that seeks to understand not only its origins but also its sociological, ethical, and human rights implications.

HRTS 3348 (3). 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.

HRTS 3377 (3). LITERATURE AND THE CONSTRUCTION OF HOMOSEXUALITY. Same-sex love and desire have been a focus for literary, philosophical, and religious writing from the ancient world to the present and today's concerns with LGBT civil rights and marriage. This course examines the cultural history of concern with the nature of same-sex love; its social value or dangers; and its moral and philosophical significance as the object of literary expression and representation, as a crucial thread in the history of gender politics, and as an ongoing locus of conflict over human rights.

HRTS 3385 (3). LITERATURE OF THE HOLOCAUST. Explores the literature of the Holocaust and issues regarding the possibility of aesthetic portrayal of this horrific event. Considers Holocaust literature and post-Holocaust literature. *Prerequisite:* DISC 1313 or 2306.

HRTS 3387 (3). RELIGION AND HUMAN RIGHTS. Major world religious traditions and modern ideas of human rights. Religious understandings of humanity and political order are considered in relation to contemporary human rights issues.

HRTS 4309 (3). HUMAN RIGHTS, INDIGENOUS PEOPLES, AND NATION STATES. An examination of human rights issues among contemporary indigenous peoples, especially the impact on their cultures and societies from governmental and nongovernmental organizations, large-scale development programs, and global tourism.

HRTS 4334 (3). THE POLITICS AND LEGACIES OF THE CIVIL RIGHTS MOVEMENT. Examines the politics and legacies of the movement that destroyed the system known as Jim Crow and removed barriers to political participation by African Americans.

HRTS 4343 (3). ETHICS AND HUMAN RIGHTS. Explores how global ethical perspectives intersect with the theory and practice of human rights, emphasizing healthy and just relationships with self, community, other, place, and career.

HRTS 4344 (3). GENDER IN WORLD POLITICS. Surveys classic and contemporary scholarship about women and gender in world politics, focusing on theoretical and empirical explorations of political participation, representation, activism, democracy, war, and human rights.

HRTS 4390 (3). SPECIAL TOPICS IN HUMAN RIGHTS ABROAD. Students travel abroad to designated countries to research and write about human rights situations and violations through interaction with educational, governmental, and nongovernmental representatives; human rights activists; and survivors of human rights violations.

HRTS 4391 (3). SPECIAL TOPICS IN HUMAN RIGHTS ABROAD. Students travel abroad to designated countries to research and write about human rights situations and violations through interaction with educational, governmental, and nongovernmental representatives; human rights activists; and survivors of human rights violations.

HRTS 4392 (3). SPECIAL TOPICS IN HUMAN RIGHTS. Students research and write about a specific human rights issue under the supervision of the director and interact with human rights agencies in the greater Dallas area (or beyond).

Individualized Studies in the Liberal Arts Program

Professor Renee McDonald, **Director**

Bachelor of Arts With a Major in Individualized Studies in the Liberal Arts

General Information. The major in individualized studies in the liberal arts provides students the 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 SMU curriculum. Interested and academically qualified students are invited to explore this possibility with the program's director (Dedman College Associate Dean of Academic Affairs). If the student's plan of study appears to have merit, the director 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.

Students with at least a 3.500 GPA in the first 24 credit hours taken through enrollment at SMU are eligible to pursue the program, which consists of individually designed majors in the liberal arts of at least 36 credit hours, with a minimum of 24 credit hours of advanced courses (3000 level or above). The program must satisfy all University-wide 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. with a major in 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.

Administrative Procedures. The Dedman College Undergraduate Council shall have the final authority to approve all individualized studies programs. The Dedman College 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 Dedman College Office of the Associate Dean for Academic Affairs and to the Dedman College Office of Records and Academic Services.

The plan of study must be submitted to the Dedman College Undergraduate Council for approval before the completion of 60 total credit hours of coursework. The chair of the Faculty Supervisory Committee and the Dedman College Dean's Office will recommend candidates for graduation. The director of the Office of Records and Academic Services will be responsible for verifying and certifying graduation requirements.

Distinction. Students completing an individualized studies major can do so with distinction, which is a prearranged, two-term sequence of advanced coursework culminating in an advanced research project. The research is planned during the junior year and accomplished during the senior year. Many of these projects may qualify as a project through the Dedman College Interdisciplinary Institute and/or an Engaged Learning project, and it is the student's responsibility to consider all possibilities and deadlines.

To undertake distinction, a student must have completed 60 hours of coursework, have a GPA of 3.500 in the major courses, and must have completed a minimum of 15 advanced hours in the individualized studies major. The research project for distinction in individualized studies must be substantively different from a research project for possible distinction in a second major field. Graduation with distinction is designated on the diploma for a student who successfully completes the criteria outlined.

To earn distinction, a student must

1. Complete 36 hours of approved coursework for the individualized studies major with a 3.500 GPA or higher.
2. Submit a formal research proposal, based on the two options listed below, for approval of the student's Faculty Supervisory Committee and the individualized studies program director (Dedman College Dean's Office). The proposal must be unanimously approved. Any substantive changes must be reviewed and approved by the Faculty Supervisory Committee.

   Option One:

   Create a distinction committee of three faculty members including at least two members of the Faculty Supervisory Committee. This project committee should include a mentor in each field that the project brings together.

   Complete an advanced theory or methods course as recommended by the student's distinction committee and approved by the Faculty Supervisory Committee. This course may or may not be a part of the 36-hour major and should directly relate to the development of the distinction project.

   Complete a research project for three credit hours beyond the 36-hour major requirement. This can either be a DCAR course or an independent study taken in the field connected to the primary distinction committee member. As part of the course, the student must complete a significant research paper with a minimum of 5,000 to 8,000 words of text, including a bibliography, in APA or other appropriate academic writing style. The course instructor is the primary member of the distinction committee.

   Option Two:

   If the student has significant coursework in one Dedman College subject area, the student may submit a proposal to the Faculty Supervisory Committee to meet that department's requirements for distinction. This plan must have the approval of the Faculty Supervisory Committee and the department. The course instructor for distinction must be a faculty member of that department and a member of the student's Faculty Supervisory Committee.

3. Give an oral presentation and defense of the project to the distinction committee or instructor (whichever is applicable), the student's Faculty Supervisory Committee and the individualized studies program director (Dedman College Dean's Office). The presentation should include an overview of the project rationale, methodology, significant results and relevance to the larger academic community. This presentation must be scheduled to take place before the last day of instruction. The distinction paper must be submitted at least two weeks prior to presentation to the distinction committee or instructor, the Faculty Supervisory Committee, and the individualized studies program director (Dedman College Dean's Office). All parties must be able to attend. For option two, the instructor and the Faculty Supervisory Committee must be able to attend.
4. Complete the overall project with a grade of *A* or *A*-, determined by the student's distinction project committee or instructor, and approved by the Faculty Supervisory Committee and the director of the individualized studies program.

When all the above qualifications have been met, the granting of distinction for individualized studies in the liberal arts is recommended by the Faculty Supervisory Committee to the director of the program, and ultimately granted or denied by the individualized studies program director (Dedman College Dean's Office).

The Courses (DCAR)

DCAR 4001 (0). DEDMAN COLLEGE ADVANCED RESEARCH. Independent research for students pursuing distinction in interdisciplinary or individualized majors or engaged in advanced independent research in relation to other Dedman College programs. Enrollment in this course requires preapproval of the senior associate dean of academic affairs.

DCAR 4301 (3). DEDMAN COLLEGE ADVANCED RESEARCH. Independent research for students pursuing distinction in interdisciplinary or individualized majors or engaged in advanced independent research in relation to other Dedman College programs. Enrollment in this course requires preapproval of the senior associate dean of academic affairs.

DCAR 4302 (3). DEDMAN COLLEGE ADVANCED RESEARCH. Independent research for students pursuing distinction in interdisciplinary or individualized majors or engaged in advanced independent research in relation to other Dedman College programs. Enrollment in this course requires preapproval of the senior associate dean of academic affairs.

International Studies and Area Studies Program

www.smu.edu/internationalstudies

Professor Stephen K. Wegren, **Director**

Bachelor of Arts With a Major in International Studies

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 Program are designed to provide students with a foundation for this expertise, requiring coursework in the social sciences, business, language and humanities. A student majoring in international studies also chooses a region in which to specialize: Europe, Asia, Latin America, or the Middle East/Africa.

As an alternative to the international studies major, a student may choose an area of study to earn a minor. Minors include European studies, Asian studies, Latin American and Iberian studies, and Middle Eastern/African studies.

The international studies major provides exposure to global issues through the basic curriculum. **Note:** Courses taken in the basic curriculum do not double count in the regional specialization. The international studies major provides students with the opportunity to design an interdisciplinary program of study that facilitates 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 a specific geographical area. The major requires 33 hours of coursework (in addition to prerequisites for certain courses and the language requirement).

The senior seminar, **INTL 4388**, which must be taken on campus by all majors in their senior year, is designed as a capstone course where students integrate and apply what they have learned. The topic of the seminar will vary depending upon the professor.

A cocurricular requirement for the B.A. in international studies is two years of college-level study of a world language or equivalent. **Note:** Latin does not fulfill the language requirement in this major. Courses for the language requirement do not count toward the 33-hour requirement. The language requirement may be met through examination, the transfer of language study credit from another university or by taking courses on campus or study abroad.

An updated list of available courses and additional information about independent readings, departmental distinction requirements, study abroad opportunities and internship requirements are available on the website for international studies.

Requirements for the Major	*Credit Hours*
Basic Curriculum (at least two courses must be 3000 level or above)	15
Introduction to World Cultures (select one)	
ANTH 2301 Introductory Cultural Anthropology **HIST 1302** World Cultures and Civilization **SOCI 2377** Markets and Cultures	

International Economics (select one)

ANTH 4384 Global Issues and Development
ECO 4357 International Trade
ECO 4358 International Macroeconomics

PLSC 3389 International Political Economy (ECO 1311 or 1312 is strongly recommended although neither is required as a prerequisite.)

International Politics (select one)

PLSC 1340 Introduction to Comparative Politics
PLSC 1380 Introduction to International Relations

Global Perspective (select two)

These courses do not have a regional focus:
ADV 3354 International Advertising (SMU-in-London)
ANTH/SOCI 3301 Health, Healing, and Ethics
ANTH/SOCI 3310 Gender/Sex Roles: A Global Perspective
ANTH 3327 Culture Change and Globalization
ANTH 3329 Contesting Development: Global and Local Impacts and Human Rights
ANTH 3333 The Immigrant Experience
ANTH 3336 Gender/Globalization: Cultural/Ethical Issues
ANTH 3348 Health as a Human Right
ANTH 3365 The Rise and Fall of Superpowers
ANTH/RELI/SOCI 3366 Magic, Myth, and Religion Across Cultures
ANTH/SOCI 3368 Urban Life: A Cross-Cultural Perspective
ANTH 3384 Paradise Lost? Archaeology/Ethics of Human Environmental Impacts
ANTH 3388 Warfare and Violence
ANTH 4303 Political Economy of Health
ANTH 4304 Migration, Ethnicity, and Nationalism
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 3368 Art and Context: 1940–1970
ARHS 3369 Contemporary Art: 1965–Present
BA 3300 Topics: International Management (study abroad)
COMM 3321 Communication in Global Contexts
ECO 5359 Economic Development: Microeconomic Perspectives
ECO 5360 Economic Development: Macroeconomic Perspectives
ECO 5361 Natural Resources and Energy Economics
ECO 5362 Economic Growth
ENGL 3354 Non-Western Culture and Literature
FILM 2351 International Film History
FILM 4399 Global Media Systems

FINA 4329 International Finance (available only to business majors with a minor or second major in interna tional studies)
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 (study abroad programs)
MKTG 3348 International Marketing (available only to business majors with a minor or second major in inter- national studies)
PLSC 3342 Making Democracy Work
PLSC 3365 Communism and Post-Communism
PLSC 3381 Current Issues in International Politics
PLSC 3382 International Organizations: Global/Regional
PLSC 3383 The American Foreign Policy Process
PLSC 3387 Political Geography
PLSC 3390 Negotiating International Trade
PLSC 4342 Why Nations Revolt
PLSC 4344 Gender in World Politics
PLSC 4354 The Third World and North-South Relations
PLSC 4380 Special Studies in International Relations (also study abroad)
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
SOCI 3340 Global Society
SOCI 4321 Immigration and Population Issues

Regional Specialization 15

At least four courses must be 3000 level or above.

Social Sciences (three courses selected from the student's regional specialization)

African/Middle Eastern Studies

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 3323 History of Islam in South Asia
HIST 3326 The Venture of Islam
HIST 3371 Conflicts in the Modern Middle East

Social Sciences (continued)

African/Middle Eastern Studies

HIST 3378 Problems in African History
HIST 3389 Problems in Middle Eastern History
HIST 3390 The Modern Middle East: 1914 to the Present
HIST 3392 The African Diaspora
HIST 3396 Middle Eastern Economic History
HIST 4364 History: 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

Asian Studies

ANTH 3316 Cultures of the Pacific Islands
ANTH 3317 Peoples of Southeast Asia
ANTH 3323 East Asian Cultural Traditions
ANTH 4390 Asian Society (SMU-in-Australia)
BA 3300 Japanese Business (SMU-in-Japan)
ECO 4357 Japanese Economy (SMU-in-Japan)
HIST 2390 Civilization of India
HIST 2393 Japan Before 1850
HIST 2394 China Before 1850
HIST 2395 Modern East Asia
HIST 3315 Modern South 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 Japanese Politics and Society
PLSC 3352 Chinese Politics
PLSC 4340 Comparative Government and Politics
PLSC 4353 Political Economy of East Asia
PLSC 4386 International Relations of East Asia
SOCI 3300 Japanese Society (SMU-in-Japan)
WL 3350/SOCI 3341 Perspectives: East Asian Woman
WL 3395 A Cultural Journey to China (SMU-in-Suzhou)

European Studies

ANTH 3355 Society and Culture in Contemporary Europe
BA 3300 European Business Environment: The EU (SMU-in-Copenhagen)
BA 4315 EU Seminar (SMU-in-Copenhagen)
HIST 2323 Russian Culture
HIST 2366 Europe in the Modern World, 1760–Present
HIST 3303 Modern England, 1867–Present
HIST 3328 Economic History Europe 1000 A.D.–Present
HIST 3329 Women in Early Modern Europe
HIST 3330 Women in Modern European History
HIST 3334 France Since 1789
HIST 3335 One King/Law: France 1500–1798 (Paris)
HIST 3340 The Revolutionary Experience in Russia

Social Sciences (continued)

European Studies

HIST 3341 Soviet and Post-Soviet Society and Politics, 1917–Present
HIST 3343 20th-Century Europe (SMU-in-Copenhagen)
HIST 3346 Modern England, 1714 to the Present (SMU-in-Oxford)
HIST 3352 The Age of the Crusades
HIST 3353 The History of Ancient Greece
HIST 3358 The Renaissance
HIST 3359 Europe in the Age of the Reformation
HIST 3363 The Holocaust
HIST 3365, 3366 Problems in European History
HIST 3367 Revolutions in European History
HIST 3374 Diplomacy in Europe: Napoleon to the European Union (SMU-in-Oxford)
HIST 3375 Social History of Early Modern Europe
HIST 3376 Social and Intellectual History of Europe
HIST 3381 The First World War and Its Impact
HIST 3383 Habsburg Monarchy: Making of East Central Europe
HIST 3385 The Balkan Peninsula: European Context
HIST 4314 The Jews in Europe (SMU-in-Copenhagen)
HIST 4363 Inside Nazi Germany
HIST 4369 History of Modern Germany
HIST 4373 History of Modern France
HIST 4381 History of Spain, 1469 to the Present
HIST 4388 Georgian/Victorian England, 1714–1867 (SMU-in-Oxford)
HIST 5367 Russia From the Kievan Era to 1881
HIST 5371 The French Revolution/Napoleon, 1789–1815
HIST 5373 Europe: Bismarck to WWI, 1870–1918
HIST 5374 Recent European History, 1918–Present
HIST 5376 Europe: 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 Under Putin (SMU-in-Copenhagen)
PLSC 3358 Government and Politics of Russia
PLSC 3359 From Communism to Democracy
PLSC 4340 Special Studies in Comparative Government and Politics
PLSC 4343 Nationalities and Minorities in Europe
PLSC 4358 Soviet Politics: Revolution to Revolution
PLSC 4380 Historical/Contemporary Issues of European Construction (SMU-in-Paris)
PLSC 4384 American-Russian Relationship
PLSC 5341 European Politics: The European Union

Social Sciences (continued)

European Studies

PLSC 5383 European Conflict and Security Issues (SMU-in-Copenhagen)
SOCI 5363 Criminal Justice in Scandinavia (SMU-in-Copenhagen)
WL 2343 After Communism (SMU-in-Moscow)

Latin American and Iberian Studies

ANTH 3311 Mexico: From Conquest to Cancun
ANTH 3313 South-American Indians, 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 (study abroad programs)
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 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

Humanities and Arts (two courses selected from the student's regional specialization)

African/Middle Eastern Studies

ARHS 3306 Mummies, Myths, and Monuments of Ancient Egypt
ARHS 3328 Byzantine Art
ARHS 3354 Modern/Contemporary Art, Arab World
ARHS 3390 Traditional Arts of Africa
ARHS 3392 Islamic Art and Architecture
RELI 3329 Introduction to Islam
RELI 3362 Islam and the West
RELI 3372 Biblical Interpretation and the State of Israel
WL 3349/HIST 3392 The African Diaspora: Literature and History of Black Liberation

Humanities and Arts

Asian Studies

ARHS 3394 Arts and Architecture of Japan
ARHS 3395 Arts and Architecture of India
ARHS 3396 Art/Architecture of China (SMU-in-Taipei)
CHIN 4381 Readings in Chinese Literature and Culture
CHIN 4382 Chinese Culture and Society in Film
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
RELI 3376 Constructions of Gender: Sexuality/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
WL 3310 Transnational Chinese Cinema
WL 3312 Women in Modern China
WL 3322 Japanese Literature in Translation (SMU-in-Japan)
WL 3325 Perspectives on Modern China
WL 3395 A Cultural Journey to China (SMU-in-Suzhou)

European Studies

ARHS 1303 Introduction to Western Art I
ARHS 1304 Introduction to Western Art II
ARHS 1331 19th-Century European Art
ARHS 1332 20th-Century Art: Sources and Styles of Modern Art
ARHS 3320 Medieval Art
ARHS 3321 Age of the Crusades: Power and Piety in the Ancient and Medieval Near East
ARHS 3324 Art and Cultures of Medieval Spain
ARHS 3325 The Gothic Cathedral
ARHS 3329 Paris Art and Architecture I (SMU-in-Paris)
ARHS 3330 Renaissance and Baroque Architecture
ARHS 3331 Art and Culture of the Italian Renaissance
ARHS 3332 16th-Century Italian Art
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 18th-Century European Art and Theatre: Staging Revolution
ARHS 3350 Modern Art and Media Culture
ARHS 3352 Impressionism, Symbolism, Deviant Body
ARHS 3353 Impressionism in Context (SMU-in-Paris)

Humanities and Arts (continued)

European Studies

ARHS 3362 Picturing Children: European Art 1848–1940
ARHS 3364 History and Theory of Prints
ARHS 3388 Why We Go To Auschwitz
ARHS 3399 The Medieval Jewish-Christian Dialogue in Art and Text
ARHS 4344 Images of Power: Kings, Nobles, and Elites (SMU-in-Paris)
ENGL 3341 British Literary History II
ENGL 3344 Victorian Gender
ENGL 3360 Writers in Paris: Invention of Modernism (SMU-in-Paris)
FILM 2352 History of European Film (SMU-in-Copenhagen)
FREN 4373, 4374 French Civilization (SMU-in-Paris)
FREN 4375 Introduction to French History and Culture
FREN 4376 Introduction to Francophone Cultures
PHIL 3333 European Thought: Modernism to Post-modernism (SMU-in-Copenhagen)
PHIL 3352 History of Western Philosophy (Modern)
PHIL 3370 19th-Century Philosophy (also SMU-in-Copenhagen)
PHIL 3382 20th-Century European Philosophy
WL 3303/SPAN 3373 Spanish Civilization (SMU-in-Spain)
WL 3307 The Belle Époque and the Birth of Modernity (SMU-in-Paris)
WL 3323/HIST 2323 Russian Culture
WL 3331 Survey of Russian Literature in Translation
WL 3361 Special Topics French Literature in Translation
WL 3369 Perspectives on Modern Germany
WL 3390 Italian Cinema
WL 3391, 3392 Italian Literature in Translation

Latin American and Iberian Studies

ANTH 3312 Mesoamerican Archaeology
ARHS 1308 Epic of Latin America
ARHS 1338 Chicano Art and the Politics of Place
ARHS 1350 Transoceanic Visions: The Arts and Cultures of the Portuguese Empire
ARHS 3324 Arts and Cultures of Medieval Spain
ARHS 3338 Baroque Art in Italy, Spain, the New World
ARHS 3339 El Greco to Goya: Painting of the Golden Age
ARHS 3344 Paintings at the Prado (SMU-in-Spain)
ARHS 3360 Modern Painters in Spain (SMU-in-Spain)
ARHS 3363 Topics in Brazilian Art and Architecture
ARHS 3376 Latin American Art
ARHS 3377 Art/Architecture of Hispanic New Mexico
ARHS 3379 Power/Spectacle: Arts of Spain/New Spain

Humanities and Arts (continued)	
Latin American and Iberian Studies	
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	
ARHS 3391 Visual Culture in Colonial Mexico	
ENGL 3363 Chicana/Chicano Literature	
RELI 3353 Latino/a Religions	
SPAN 3374 Spanish-American Civilization (also SMU-in-Xalapa)	
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 19th-Century Prose Fiction of Spain	
SPAN 5324 20th-Century Poetry and Drama	
SPAN 5325 20th-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, Character, 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	
WL 3303/SPAN 3373 Spanish Civilization	
WL 3305 Latin American Literature in Translation	
WL 3306 The Heart of Aztlan: Chicano Literature of the Southwest	
Capstone	3
INTL 4388 Seminar: International Government and Politics	
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Minor in International Studies

The minor in international studies requires 15 hours of coursework from the basic curriculum, nine hours of which must be in courses at the 3000 level or above. A cocurricular requirement is one year of college-level study or equivalent of a world language. **Note:** Latin does not count as a second language. Courses taken in language study do not count toward the 15 hours of required coursework.

Minor in Area Studies

The area studies minor is separate from the major or minor in international studies. A student may earn a minor in a geographical area in order to increase expertise and in-depth knowledge of a region's history, politics, society and culture. A minor in an area study is offered in Middle Eastern/African studies, Asian studies, European studies, and Latin American and Iberian studies.

Requirements for the Minor. A minor in one of the four geographic areas of study requires 15 hours of coursework. The first six hours (two courses) must be chosen from the four categories of the basic curriculum; each of the two courses must be from a separate category: "World Cultures," "International Economics," "International Politics" or "The Global Perspective." The next nine hours (three courses) must be chosen from a regional specialization: 1) the African and Middle Eastern studies curriculum, 2) the Asian studies curriculum, 3) the European studies curriculum, or 4) the Latin American and Iberian studies curriculum. At least one course must be selected from the social sciences group and at least one course must be selected from the humanities and arts group for the selected curriculum. 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 toward the area studies minor. The language requirement for the minor may be met through examination, the transfer of language study credit from another university or by taking courses on campus.

Minor in Middle Eastern/African Studies. A cocurricular requirement for the minor is two years of college-level study of a language native to Africa or the Middle East. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Africa or the Middle East. Most of the courses taught in University study abroad programs in Africa and the Middle East may be applied to the African and Middle Eastern studies minor.

Minor in Asian Studies. A cocurricular requirement for the minor in Asian studies is two years of college-level study of an Asian language. 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.

Minor in European Studies. A cocurricular requirement for the minor in European studies is two years of college-level study of a European language other than English. 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.

Minor in Latin American and Iberian Studies. A cocurricular requirement for the minor in Latin American and Iberian studies is two years of college-level study of Spanish or Portuguese. To maximize the educational experience, students are

strongly encouraged to spend at least one term or summer studying in Latin America or Iberia. Most of the courses taught in University study abroad programs in Latin America/Iberia may be applied to the Latin American and Iberian studies minor.

International Studies Major and Minor Rules for SMU Abroad Credit

To maximize the educational experience in these degree programs, all international studies majors and minors 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. The following policies apply to the International and Area Studies Program:

For the International Studies Major

- Up to 12 hours of world language study may be taken in an SMU-approved study abroad program and counted toward the language requirement for the major.
- Up to 15 hours in the student's regional specialization may be taken in an SMU-approved study abroad program and counted toward the major.
- Of the 15 hours required from the basic curriculum, 12 hours must be taken on an SMU campus (Dallas, Taos or Plano). Three hours of transfer credit (not an SMU-approved study abroad program) may be counted toward fulfillment of the basic curriculum requirement.
- If a student wishes to take a course abroad for credit in the global perspective, it is highly recommended that the course be preapproved by the director before enrolling. Petitions after the course has been taken may not be approved.
- The senior seminar (INTL 4388) must be taken on an SMU campus (Dallas, Taos or Plano).
- A total of 33 hours (exclusive of the 12 hours of language study required for the major) are required for the major in international studies.
- These policies do not change the required number of credit hours in advanced courses.

For the International Studies Minor

- Up to six hours of world language study may be taken in an SMU-approved study abroad program and counted toward the language requirement for the minor.
- Of the 15 hours required from the basic curriculum, 12 hours must be taken on an SMU campus (Dallas, Taos or Plano). Three hours of transfer credit (not an SMU-approved study abroad program) may be counted toward fulfillment of the basic curriculum requirement.

For an Area Studies Minor

- Up to 12 hours of world language study may be taken in an SMU-approved study abroad program and counted toward the language requirement for any area studies minor.
- Three of nine hours in the student's regional specialization may be taken in an SMU-approved study abroad program and counted toward the minor.

Directed Readings, Internships and Distinction Courses

INTL 4302 Directed Readings
INTL 4306 Internship in International Studies
INTL 4307 International Studies Distinction Thesis

Jewish Studies Program

Professor of Practice Shira Lander, **Director**

Minor in Jewish Studies

The minor in Jewish studies offers students of all backgrounds a multidisciplinary examination of Jewish culture and religion, the Jewish people, and the State of Israel. Coursework for the minor must be distributed as follows:

Requirements for the Minor	*Credit Hours*
Jewish Studies	3
JWST 1300 Introduction to Jewish Studies	
General Electives *(at most one from the following)*	0–3
HIST 3390 Modern Middle East: 1914 to the Present	
RELI 1304 Introduction to Western Religions	
RELI 3341 U.S. Religious History From 1865 to the Present	
RELI 3342 Religion in the United States to 1865	
RELI 3352 Love and Death in Ancient Mythology	
Focused Electives *(at least three from the following at the 3000 level or higher)*	9–12
ARHS 3324 Art and Cultures of Medieval Spain	
ARHS 3388/4349 Why We Go to Auschwitz: Art, Trauma, and Memory	
ARHS 3399 The Medieval Jewish-Christian Dialogue in Art and Text	
ENGL 3365 Jewish-American Literature and Culture	
ENGL 3385 Literature of the Holocaust	
HIST 3363 The Holocaust	
HIST 4314 The Jews in Europe: Middle Ages to the Present	
MUHI 1322 Introduction to Jewish Music	
RELI 1311 Judaism, Christianity, and the Bible	
RELI 3318 The Hero in the Bible and the Ancient Near East	
RELI 3319 Hebrew Bible	
RELI 3320 Classical Judaism	
RELI 3321 Religion and the Holocaust	
RELI 3324 American Judaism	
RELI 3348 Temples, Churches, and Synagogues in the Ancient Mediterranean	
RELI 3360 The History of Judaism	
RELI 3371 The World of the New Testament	
RELI 3383 Reel Judaism: Cinematic Representations of Jewish Life	
RELI 3390 A Persistent Prejudice: Anti-Semitism in Western Civilization	
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The Courses (JWST)

JWST 1300 (3). INTRODUCTION TO JEWISH STUDIES. Introduces the various subfields and research methods used within the interdisciplinary field of Jewish studies: Hebrew language; Israel studies; Judaism; and Jewish art, history, literature, and music. Provides academic foundations for advanced courses offered in each of these areas.

Law and Legal Reasoning Program

Associate Professor Pamela Corley, **Director**

Minor in Law and Legal Reasoning

The minor in law and legal reasoning provides a coherent grouping of courses from different disciplines that examine the foundations and applications of the law. Specifically, the minor is designed to provide students with the knowledge of substantive law, along with skills in legal analysis and reasoning, oral advocacy, research and writing.

PLSC 1320 Introduction to American Politics and Government is a prerequisite for the minor. In addition to taking PLSC 1320, students must take a minimum of 18 hours selected from the following:

Requirements for the Minor	*Credit Hours*
Required Courses	6
PLSC 3330 Law, Politics, and the Supreme Court	
or **PLSC 3325** Introduction to Law	
COMM 3327 Argumentation and Advocacy	
or **COMM 3345** Persuasion Theory and Practice	
Electives (one or more courses from the following)	12
COMM 2300 Public Speaking	
COMM 2310 Rhetoric, Community, and Public Deliberation	
COMM 3300 Free Speech and the First Amendment	
COMM 3327 Argumentation and Advocacy	
COMM 3345 Persuasion Theory and Practice	
COMM 4323 Forensics Workshop	
COMM 4324 Competitive Mock Trial	
One or more courses from the following:	
PLSC 3325 Introduction to Law	
PLSC 3330 Law, Politics, and the Supreme Court	
PLSC 3335 Judicial Process	
PLSC 4335 Constitutional Law	
PLSC 4336 First Amendment and Privacy	
PLSC 4337 Civil Rights	
PLSC 4338 Criminal Process Rights	
PLSC 4341 Rights and Representation	
PLSC 4371 Jurisprudence	
One or more courses from the following:	
PHIL 1301 Elementary Logic	
PHIL 3373 Philosophy of Criminal Law	
PHIL 3374 Philosophy of Law	
SOCI 3363 Crime and Delinquency	
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Notes

- Students may receive credit toward the minor for either but not both **COMM 3300** and **PLSC 4336**.
- Students may receive credit toward the minor for either but not both **COMM 4323** and **COMM 4324**.
- **COMM 3327, COMM 3345, PLSC 3330** and **PLSC 3325** can be taken as an elective if not taken as one of the required courses.

Medieval Studies Program

www.smu.edu/medievalstudies

Associate Professor Bonnie Wheeler, **Director**

Bachelor of Arts With a Major in Medieval Studies

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. 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. It is appropriate for preprofessional training in multiple fields such as business, religious studies, biology, music theory, and world languages and literatures. The major can also lead to graduate work in medieval studies or, more usually, in such disciplines as literature, history, and art and music history. The Dallas Medieval Consortium makes it possible for students at SMU, the University of Dallas and the University of Texas at Dallas to enroll in selected medieval studies courses on the other campuses. Through the consortium, SMU students can elect no more than 15 hours in medieval subject courses at any other consortium university.

Medieval studies is an interdisciplinary major of 30 hours in medieval subjects, and advanced 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 medieval philosophy, religious studies and church history when they are available. Individual student programs are approved by the director and a committee of two other members of the Medieval Studies Program faculty.

Many departmental courses in the field of medieval studies are offered each year; courses listed as "MDVL" are interdisciplinary. Students should consult with the director about offerings and frequency.

Requirements for the Major	*Credit Hours*
Medieval Studies	3–6
One or two interdisciplinary courses from the MDVL course list.	
Advanced Latin Language and Literature	6
LATN 3324 Advanced Latin Grammar and Composition **LATN 3335** Advanced Latin Readings and Composition	
Art History and Music History (two or three from the following)	6–9
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	

Art History and Music History (continued)	
ARHS 3328 Byzantine Art	
ARHS 3329 Paris Art and Architecture I (SMU-in-Paris)	
ARHS 3392 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	
MUHI 3301 Survey of Music History I	
MUHI 4301 Research Project: Music History (when applicable)	
MUHI 4392 Directed Studies in Music History: The Middle Ages	
MUHI 6309 Seminar: Medieval/Renaissance Sources/Styles	
PERE 3175 Collegium Musicum	
History (two or three from the following)	6–9
HIST 2321 Philosophical/Religious Thought, Medieval West	
HIST 3332 Ancient and Medieval France	
HIST 3344 The Oxford Landscape: Stone Age to the Tudors (SMU-in-Oxford)	
HIST 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) Joan of Arc: History, Literature, Film	
HIST 3365 Problems in European History (when applicable)	
HIST 3366 Problems in European History (when applicable)	
HIST 4320, 4321 Medieval Europe I, II	
HIST 4322 Constitutional/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/Medieval England: The Beginning to 1485	
HIST 5364 The City of God: Utopias in the Christian Tradition	
HIST 5378 Medieval Renaissances	
HIST 5392 European History Autobiographical Tradition (when applicable)	
PHIL 3351 History of Western Philosophy (Ancient)	
PLSC 4361 Political Regimes: Understandings of Rome	
RELI 3349 Early Christianity	
RELI 3362 Islam and the West	
Literature (two or three from the following)	6–9
ENGL 1320 Chivalry	
ENGL 3320 Topics in Medieval Literature	
ENGL 3371/HIST 3357 Joan of Arc in History, Literature, Film	
ENGL 3389 Directed Studies (when applicable)	
ENGL 1320 Chivalry	

Literature (continued)	
ENGL 3320 Topics in Medieval Literature	
ENGL 3371/HIST 3357 Joan of Arc in History, Literature, Film	
ENGL 3389 Directed Studies (when applicable)	
ENGL 4320 Medieval Writers	
ENGL 4323 Chaucer	
FREN 5320, 5321 Literary Periods (when applicable)	
FREN 5334, 5335 Genre Studies (when applicable)	
SPAN 5310 Spanish Literature Before 1700	
WL 3365, 3366 Special Topics: French Literature in Translation (when applicable)	
WL 3391, 3392 Special Topics: Italian Literature in Translation (when applicable)	
WL 3393 Dante's Poetic Vision	
PLSC 4362 Medieval Political Philosophy	
RELI 3326 Introduction to the New Testament	
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Departmental Distinction

The major offers graduation with distinction to select student majors of high academic achievement. Interested students with a minimum 3.000 overall GPA and a 3.500 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 a senior-year distinction paper. The distinction paper must be a substantial piece of independent and original research that will be presented to 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 3.000 overall GPA at graduation.
2. A minimum 3.500 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 the Medieval Studies Program and one additional faculty member selected by the faculty adviser in consultation with the student.

Minor in Medieval Studies

A student must complete 15 hours from the courses listed above, 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 the Medieval Studies Program.

The Courses (MDVL)

MDVL 3323 (3). TALES OF WALES. Survey of native Welsh literature (in translation) from the sixth to the 20th century. Primary focus on medieval and Arthurian texts and their influence on the British and European literary imagination.

MDVL 3327 (3). THE UNICORN: UNDERSTANDING VARIETIES OF TRUTH IN THE MIDDLE AGES. Investigates the question of how history and fiction were perceived in the Middle Ages.

MDVL 3329 (3). 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.

MDVL 3351 (3). THE PILGRIMAGE: MEDIEVAL. A look at the medieval world through one of its own literal and metaphorical images, investigating the music, art, monuments, and literature of pilgrimage during the Middle Ages.

MDVL 3352 (3). IDEAS AND IDEAL OF GENDER IN THE MIDDLE AGES.

MDVL 3353 (3). MEDIEVAL IDEAS. Presents some of the classic achievements of the medieval mind, focusing on developments of continuing interest; where advisable, comparisons and contrasts are drawn with methods of thinking and solving problems in use in later times. While the focus is on medieval Europe and the adjacent Muslim world, wherever possible, students' attention is drawn to developments in other culture areas.

MDVL 3390 (3). MEDIEVAL PHILOSOPHY TOPICS. Research and writing in medieval fields on special philosophical topics at the forefront of current intellectual interest.

MDVL 3398 (3). DIRECTED STUDIES.

MDVL 3399 (3). DIRECTED STUDIES.

MDVL 4308 (3). TOWNS, TRADE, AND REVOLUTION IN THE MEDIEVAL WEST. Investigates the medieval city from its origins through 1500. Within a chronological framework, students explore urban populations and institutions, commerce, universities, guilds, and the Black Death.

MDVL 4318 (3). BYZANTINE HISTORY 285–1453. Traces the outlines of Byzantine history from 285 to 1453. Topics include the changing structure of the family, gender roles, ruler and ruled, and town and country.

MDVL 4371 (3). SPECIAL TOPIC. Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5301 (3). INDEPENDENT STUDIES. Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5302 (3). INDEPENDENT STUDIES. Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5398 (3). INDEPENDENT STUDIES. Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5399 (3). INDEPENDENT STUDIES. Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

Natural Sciences Program

Professor William C. Orr, **Director**

Minor in Natural Sciences

A minor in the natural sciences offers students a systematic exposure to biology and chemistry. The minor is particularly suitable for engineering and business 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.

Requirements for the Minor	*Credit Hours*
BIOL 1401, 1402 Introductory Biology	8
BIOL 3304 Genetics	3
BIOL 3350 Cell Biology	3
CHEM 1303/1113, 1304/1114 General Chemistry	8
CHEM 3371/3117, 3372/3118 Organic Chemistry	8
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Public Policy Program

Professor Dennis Ippolito, **Director**

Bachelor of Arts With a Major in Public Policy

The public policy major is an interdisciplinary program in economics and political science designed to provide students with the analytical skills and historical context to understand and address 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.

The B.A. degree in public policy requires at least 15 hours of advanced courses selected from the electives, with no fewer than six hours in economics and six hours in political science or public policy. Students must receive at least a *C-* in all classes counting toward the major. A maximum of 12 hours of (preapproved) advanced-level courses in SMU-approved study abroad programs may be counted toward the major.

Requirements for the Major	*Credit Hours*
Core Courses	24
ECO 1311 Principles of Microeconomics	
ECO 1312 Principles of Macroeconomics	
ECO 3301 Price Theory (Intermediate Microeconomics)	
MATH 1309 Intro to Calculus for Business/Social Science	
or **MATH 1337** Calculus I	
PLSC 1320 Intro to American Government and Politics	
PLSC 1340 Introduction to Comparative Politics	
or **PLSC 1380** Introduction to International Relations	
PLSC 3320 Principles of Public Policy	
STAT 2301 Statistics for Modern Business Decisions	
or **STAT 2331** Introduction to Statistical Methods	
or **STAT 4340** Statistical Methods: Engrs/App Scientists	
Electives	15
Quantitative Methods *(one from the following):*	
ECO 5341 Strategic Behavior	
ECO 5350 Introductory Econometrics	
ECO 5370 Cost-Benefit Analysis	
ECO 5375 Economic and Business Forecasting	
Two courses from any two of the following groups:	
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	
ECO 5361 Natural Resources and Energy Economics	
ECO 5365 Public Finance	
PLSC 3329 Bureaucracy and Regulatory Politics	
PLSC 3355 The Political Economy of the Welfare State	
PLSC 3382 International Organizations	
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 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 3333 Environmental Policy
PLSC 3335 Judicial Process
PLSC 3370 Women and Politics
PLSC 4321 Basic Issues in American Democracy
PLSC 4334 Politics/Legacies: Civil Rights Movement
PLSC 4335 Constitutional Law
PLSC 4336 Civil Liberties: First Amendment/Privacy
PLSC 4337 Civil Rights
PLSC 4338 Criminal Process Rights
PLSC 4339 Women and the Law
PLSC 4341 Comparative Rights and Representation
PLSC 4371 Jurisprudence
PP 3310 Environmental Policy

International Politics and Policy

ECO 4357 International Trade
ECO 4358 International Macroeconomic Theory/Policy
ECO 5360 Economic Dvlp: Macroeconomic Perspectives
FINA 4329 International Finance*
PLSC 3340 Western European Politics
PLSC 3345 Governments and Politics of the Middle East
PLSC 3346 Japanese Politics and Society
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 4342 Why Nations Revolt
PLSC 4356 Latin American Political Economy
PLSC 4381 National Security Policy
PLSC 4382 The Politics of Military Force
PLSC 4384 American-Russian Relationship
PLSC 4386 International Relations of East Asia
PLSC 4391 NAFTA and Free Trade in the Americas
PLSC 4398 Nuclear Weapons and World Politics
STRA 5370 Strategic Management in a Global Economy *

**available only to business majors with a second major in public policy*

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PP 3310 (3). ENVIRONMENTAL POLICY. Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

Tower Scholars Program

Students currently enrolled at SMU may apply to become a Highland Capital Management (HCM) Tower Scholar via the competitive admissions requirements outlined below. Interested students with a GPA of 3.300 or higher may apply in the fall of their second year of enrollment at SMU; eligible transfer students must have sophomore standing to apply. **Note:** To be considered for admission, students must agree to complete the prerequisites/corequisites for the minor in public policy and international affairs.

The selection process for choosing HCM Tower Scholars will be based on merit and determined by the application and interview process. Applicants must submit the following four items:

1. Transcript(s) of all college/university coursework.
2. An online application with basic information, including areas of study, awards, interests and activities.
3. An 800–1,000 word essay.
4. Two letters of recommendation, at least one of which must be from an SMU faculty member.

The applicant pool will be evaluated using a variety of relevant criteria, including but not limited to the following: the relevance of the minor in public policy and international affairs to a student's career goals, a strong academic record, a strong extracurricular record with demonstrated interest in community and/or public service, demonstrated leadership and sense of social responsibility, and excellent written communication skills. The selection committee will be recruiting students from a variety of majors and schools, as well as considering diversity broadly defined. Once the applicant pool has been evaluated, a select number will be invited to the final stage of the application process, which is an interview with the Minor in Public Policy and International Affairs Selection Committee. In addition to all of the criteria listed above, the selection committee will seek to evaluate the verbal communication skills of each candidate and will expect candidates to be able to express why becoming an HCM Tower Scholar and being accepted into the minor in public policy and international affairs would be meaningful given their specific career goals.

Minor in Public Policy and International Affairs

The minor in public policy and international affairs is a selective program for HCM Tower Scholars that will enable admitted students from any academic major to receive practical training in public policy analysis. Policy practitioners and SMU faculty offer a curriculum that emphasizes critical thinking and analytical skills as well as professional training to ensure that HCM Tower Scholars graduate with skills for effective policy analysis and with the experience of making concrete policy recommendations in real-world applications.

The following prerequisites/corequisites for the minor must be completed before students begin their junior year:

- A grade of *C-* or better in ECO 1311 or 1312, a score of 4 or better in the Macroeconomics Advanced Placement Test, or a score of 4 or better in the Microeconomics Advanced Placement Test.

- A grade of *C-* or better in one quantitative course (ITOM 2305, MATH 1309 or 1337, SOCI 3311 or 3312, or STAT 2301, 2331 or 4340) or a score of 4 or better in the Statistics Advanced Placement Test.

Requirements for the Minor	*Credit Hours*
PPIA 2380, 3301, 3302, 4306	**12**
PLSC 3320 Principles of Public Policy	**3**
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The Courses (PPIA)

PIA 2380 (3). GATEWAY TO GLOBAL POLICYMAKING. Examines foreign, economic, and domestic policy issues and analyzes the ways policy is made in the United States. Students look at the interaction of substantive policy problems, policy tools, and organizational structures at the local, national, and international levels, while considering the ethics of political choices. Reserved for Tower Scholars.

PPIA 3301 (3). JUNIOR-YEAR POLICY SEMINAR: THEORETICAL PUBLIC POLICY. First of a two-part sequence. Students review policy case studies and learn how to analyze and interpret data related to public policy issues. They apply what they learn during the following term, in PPIA 3302. Reserved for Tower Scholars.

PPIA 3302 (3). JUNIOR-YEAR POLICY SEMINAR: PUBLIC POLICY IN PROFESSIONAL PRACTICE. Second of a two-part sequence. Students work on a specific policy-related project from a real-world setting. Culminates in written policy recommendations presented to a nonacademic client. *Prerequisite:* PPIA 3301. Reserved for Tower Scholars.

PPIA 4306 (3). TOWER SCHOLARS DIRECTED RESEARCH PROJECT. Offers Tower Scholars experience in varied organizations and agencies. Students conduct in-depth research, analysis, and structured reflection on an assigned policy issue. Includes interviews and discussions off-campus, research online and in the SMU libraries, and completion of a significant and useful research paper. During weekly class meetings, students relate their fieldwork experiences to readings, discussions, and the shared experiences of fellow Tower Scholars. Reserved for Tower Scholars.

Women's and Gender Studies Program

www.smu.edu/womgenstudies

Professor Kathleen Wellman, **Director**
Senior Lecturer Josephine Caldwell-Ryan

Minor in Women's and Gender Studies

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 being female or male. The program's dual name acknowledges two approaches. One emphasizes the intellectual, artistic, political and social contributions of women. The other extends into to a broader range of issues, including the social and cultural meanings of masculinity and the relationships between gender, sexuality and sexual identity. Through participation in the program, SMU students are exposed to contemporary challenges to traditional academic disciplines and to scholarship that addresses matters of personal identity. Because it is interdisciplinary, a women and gender studies minor complements a variety of majors and minors, especially those in the humanities, social sciences and fine arts.

Students satisfy requirements for the minor through a combination of core courses and a wide array of courses offered by many departments in Dedman College and the Meadows School of the Arts. (Courses subject to approval are topics and problems courses that earn credit toward the minor only when offered under specific preapproved titles.)

Requirements for the Minor	*Credit Hours*
WGST 2322 (or approved substitute)	3
Four WGST or approved courses Three of them at the 3000 level or above	12
	15

Major in Individualized Studies in the Liberal Arts With a Focus on Women's and Gender Studies

Students may complete a B.A. in individualized studies in the liberal arts with a focus on women's and gender studies. Students wishing to earn distinction must take a directed studies course that requires a research project and paper.

Students who qualify for individualized studies in the liberal arts and who have a strong interest in women's role in culture and society, or in the study of gender and sexuality more generally, may propose a program that focuses on women's and gender studies. The program should expose the student to the diversity of gender meanings within and across cultures. The program description and administrative procedures specified for the individualized major in the liberal arts apply, with the following additional stipulations:

1. The student must consult with the director, who shall serve as one of the members of the Faculty Supervisory Committee for the student's major.
2. Two additional faculty members who teach courses in the program serve on this committee, which oversees the student's progress and certifies completion of the major.

3. The student's program must include courses in at least four disciplines (not counting WGST courses). At least two at the 4000 level or above are strongly recommended.

Many program-approved departmental courses with a subject area in women's and gender studies courses are offered annually and, with a few exceptions, the remainder are available at least every other year. Students should consult with the director about offerings and frequency.

Requirements for the Major	*Credit Hours*
WGST 2322 Gender: Images and Perspectives	3
Two courses chosen from the following: **ANTH 3310** Gender and Sex Roles: A Global Perspective **HIST 3312** Women in American History to 1900 *or* **HIST 3327** Women in American History, 1900–Present **HIST 3329** Women in Early Modern Europe **WGST 6300** Advanced Feminist Theory	6
Nine relevant **WGST** or program-approved courses (below) at the 3000-level or above	27

ANTH 3310 Gender and Sex Roles: A Cross-Cultural Perspective
ANTH 3328 Gender Violence: Anthropological Perspectives
ANTH 3336 Gender/Globalization: Cultural/Ethical Issues
ANTH 4386, 6386 The Archaeology of Gender and Sexuality
ARHS 3358, 6389 Gender and Sexuality in the Visual Arts
ARHS 3365, 6365 Race and Gender in Visual Culture
COMM 3341 Ethnicity, Culture, and Communication
ECO 5357 Economics of Human Resources
ENGL 1360 The American Heroine: Fiction and Fact
ENGL 3344 Victorian Gender
ENGL 3364/WGST 3370 Women and the Southwest
ENGL 3367 Ethical Implications of Children's Literature
ENGL 3371/HIST 3357 Joan of Arc: History, Literature, Film
ENGL 3377 Literature/Construction of Homosexuality
ENGL 3373/WL 3359 Masculinities: Images/Perspectives
ENGL 3379 Literary/Cultural Contexts of Disability: Gender, Care, and Justice
ENGL 3361, 4330, 4343, 4363, 6391, 6392, 6393, 6394, 6395 Topics/Seminars (topic must be approved by director)
FILM 2332 American Popular Film
FILM 2362 Diversity and American Film
FILM 3310 Screen Artists (topic to be approved by director)
FILM 3395, 3398 Topics in Cinema/Television (topic to be approved by director)
HIST 1321 Marriage in America
HIST 1322 Seminar in European History (topic to be approved by director)
HIST 3301 Human Rights: America's Dilemma
HIST 3310 Problems in American History: Women's Movements and Gender Systems

HIST 3312 Women in American History to 1900
HIST 3317 Persecution to Affirmation: Sexual Minorities and Human Rights
HIST 3327 Women in American History, 1900 to the Present
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 3394 The New Woman: Emergence of Modern Womanhood, U.S. 1890–1930
HIST 3398 Women in Chinese History
HIST 4304 At the Crossroads: Gender and Sexuality in the Southwest
JOUR 4360 Women and Minorities in Mass Media
MDVL 3352 Ideas and Ideals of Gender in the Middle Ages
PHIL 3305 Philosophy and Gender
PLSC 3370 Women and Politics
PLSC 4339 Women and the Law
PLSC 4344 Gender in World Politics
PSYC 3371 Psychology of Women
RELI 3374 Female and Male in Religion and Culture
RELI 3375 The Feminine Divine
RELI 3380 Women and Religion in America
RELI 3381 Religion, Gender, and Economic Development
SOCI 3345 Construction of Social Identities in the Media
SOCI 3351 Sociology of the Family
SOCI 3371 Sociology of Gender
SOCI 4373 Race, Gender, and Inequality
SPAN 5336 (Re)presentations of Gender, Contemporary Short Latin American Novel (director approves topic)
ST 8375 Feminist/Womanist Theologies (Perkins' graduate course; instructor approval)
THEA 4381–4 Studies in Contemporary Performance: Solo Performance; Gender/Performance (director approves
WL 3312 Women in Modern China
WL 3363/WGST 3347 Figuring the Feminine
WO 8308 Women and Worship (Perkins' graduate course; instructor approval)
XS 8345 Faith, Feminism, and Public Policy (Perkins' graduate course; instructor approval)

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The Courses (WGST)

WGST 1395 (3). SPECIAL TOPICS ABROAD IN WOMEN'S AND GENDER STUDIES. Course offered in SMU-approved international programs. Prior approval by the director is required. A maximum of 3 credit hours may be applied toward the minor in women's and gender studies.

WGST 2308 (3). REVISIONS WOMAN AS ARTIST. This course is designed to discover how an emphasis on the particular experiences of women can enhance and complicate traditionally conceived areas of scholarship and critical endeavor. It also explores areas of women's experience traditionally undervalued, such as friendship, sexuality, motherhood, and old age.

WGST 2309 (3). 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.

WGST 2315 (3). 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.

WGST 2322 (3). GENDER: IMAGES AND PERSPECTIVES. An interdisciplinary examination of the ways femininity and masculinity have been represented in the past and present, with attention to what is constant and what changes.

WGST 2395 (3). SPECIAL TOPICS ABROAD IN WOMEN'S AND GENDER STUDIES. Course offered in SMU-approved international programs. Prior approval by the director is required.

WGST 3310 (3). 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.

WGST 3328 (3). GENDER VIOLENCE: ANTHROPOLOGICAL PERSPECTIVES. This course examines how gender-based violence shapes individual subjectivities and collective experiences, material realities, and psychological states, as well as the impacts of interventions on intimate, interpersonal, local, and global scales.

WGST 3347 (3). 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.

WGST 3370 (3). 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.

WGST 3380 (3). HUMAN SEXUALITY. This course explores the biosocial aspects of human sexuality and sex behaviors. A multidisciplinary and cross-cultural perspective will be used to address a wide range of theoretical and pragmatic sexual issues.

WGST 3381 (3). 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.

WGST 3382 (3). 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.

WGST 3395 (3). SPECIAL TOPICS ABROAD IN WOMEN'S AND GENDER STUDIES. Course offered in SMU-approved international programs. Prior approval by the director is required.

WGST 4109 (1). INDEPENDENT STUDIES. Supervised practicum and/or directed readings on specific problems or themes formulated by the student under faculty guidance. Director approval required.

WGST 4209 (2). INDEPENDENT STUDIES. Supervised practicum and/or directed readings on specific problems or themes formulated by the student under faculty guidance. Director approval required.

WGST 4303 (3). WOMEN'S AND GENDER STUDIES INTERNSHIP. Offers experience with organizations serving women or addressing women's and gender issues, with volunteer opportunities in the community, or with varied potential careers.

WGST 4309 (3). INDEPENDENT STUDIES. Supervised practicum and/or directed readings on specific problems or themes formulated by the student under faculty guidance. Director approval required.

WGST 4395 (3). SPECIAL TOPICS ABROAD IN WOMEN'S AND GENDER STUDIES. Course offered in SMU-approved international programs. Prior approval by the director is required.

WGST 5310 (3). SPECIAL TOPICS IN WOMEN'S AND GENDER STUDIES I. Study of a theme, issue, or topic relevant to the study of women, gender, and/or sexuality. The syllabus and assignments must be approved by a committee consisting of the professor of record, the WGST director, and a faculty member who teaches courses in the WGST program. *Prerequisite:* Enrollment in the WGST Certificate Program.

MATHEMATICS

www.smu.edu/math

Professor Alejandro Aceves, **Department Chair**

Professors: Alejandro Aceves, Vladimir Ajaev, Thomas Hagstrom, Amnon Meir, Peter Moore, Douglas Reinelt, Johannes Tausch. **Associate Professors:** Thomas Carr, Barry Lee, Daniel Reynolds, Brandilyn Stigler, Sheng Xu, Yunkai Zhou. **Assistant Professors:** Andrea Barreiro, Weihua Geng, Kathryn Hedrick, Scott Norris, Benno Rumpf. **Senior Lecturers:** Adriana Aceves, Judy Newell. **Lecturer:** Carol Seets.

General Information

The department of mathematics offers B.S. and B.A. degrees in mathematics as well as a minor in mathematics. All mathematics majors, either B.S. or B.A., and minors must earn grades of at least *C-* in all courses taken in fulfillment of the requirements for the mathematics major or minor. MATH 6000-level courses may be taken for either the B.S. or B.A. major by students who have fulfilled the prerequisites and have departmental permission. Transfer credit for MATH 1307, 1309 or 1337 will not be approved after any student matriculates to SMU, regardless of major.

Bachelor of Science 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:

Requirements for the Major	*Credit Hours*
Fundamental Mathematics	12
MATH 1337, 1338 *or* 1340, 2339, 2343	
Natural Science	6
At least 6 hours from the following:	
BIOL 1401, 1402	
CHEM 1303, 1304	
One GEO 1300-level course	
PHYS 1303, 1304	
Computer Science	3
CSE 1341 *or* 1342	
Statistics	3
STAT 4340/CSE 4340/EMIS 3340, *or* STAT 5340, *or* EE 3360	
Advanced Mathematics Elective	3
One 3000+ MATH course	
Specialization	15
At least two courses at the 4000+ level from one specialization, including at least one MATH 4000+ course	

Requirements for the Major (continued)	*Credit Hours*
Specialization (continued)	
Applied and/or Numerical Mathematics:	
MATH 3315/CSE 3365 *or* MATH 3316	
Four from MATH 3334, 3337, 3353, 4335, 4370, 5315, 5316, 5331, 5334, 5353; EMIS 3360	
Computer Science and Computer Engineering:	
MATH 3315/CSE 3365 *or* MATH 3316, and CSE 4381	
Three from MATH 3353, 4370, 5315, 5316	
Engineering:	
MATH 3315/CSE 3365 *or* MATH 3316	
MATH 3337	
One from Math 4370, 5315, 5316, 5331, 5334	
Civil Engineering: Two from CEE 5361, 5364; ME 5322	
Electrical Engineering: Two from EE 3322, 3330, 3372, 5330, 5332, 5336, 5360, 5362, 5372 (with at least one course at the 4000+ level)	
Environmental Engineering: Two from ME 5336 (MATH 6336), CEE 5331, 5332, 5334	
Mechanical Engineering: Two from ME 4360, 5302, 5320, 5322, 5336, 5361, 5386	
Operations Research:	
MATH 3315/CSE 3365 *or* MATH 3316	
Two from MATH 3353, 4370, 5315, 5316, 5353	
EMIS 3360 (required)	
One from EMIS 5361, 5362, 5369; STAT 5344/EMIS 5364	
Pure Mathematics:	
Five from MATH 3308, 3337, 3353, 4338, 4351, 4355, 4381, 5331, 5353	
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Departmental Distinction-Computational Science Honors Option

A mathematics major achieving a B.S. degree may graduate with departmental distinction by completing the computational honors option. For this honors option all of the basic major requirements will remain the same except that the following three courses are required: Math 3316, Math 4370 and Math 5315. In addition, the student is required to complete an honors thesis/senior project and achieve a GPA of 3.3 or above in all mathematics courses. The student's initial proposal and final product will be submitted to a three-person faculty committee for approval.

Bachelor of Arts 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.

Minor in Mathematics

The mathematics minor, available to students who are not seeking the B.A. or B.S. in mathematics, consists of 18 hours of MATH courses: MATH 1337, 1338 or 1340, 2339 and nine hours selected from mathematics courses at the advanced (3000+) level. MATH 2343 may replace an advanced-level mathematics course. All courses in the minor must be passed with a grade of *C-* or higher.

The Courses (MATH)

MATH 1303 (3). 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 is given if taken after any calculus course. Credit is not given for both MATH 1303 and 1304. Intended for students planning to take MATH 1309.

MATH 1304 (3). PRECALCULUS MATHEMATICS. Graphs, functions, basic analytic geometry, exponentials, logarithms, trigonometry, and inverse functions. *Prerequisites:* Three years of high school math at the level of Algebra I and above. No credit is given if taken after any calculus course. Credit is not given for both MATH 1303 and 1304. Intended for students planning to take MATH 1337.

MATH 1305 (3). MATHEMATICS FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS. Study of rational number arithmetic, with a focus on explanation through models and representations. Emphasizes algebra from the viewpoint of the elementary curriculum and problem-solving. *Prerequisite or corequisite:* EDU 2350 or PSYC 1300.

MATH 1307 (3). INTRODUCTION TO MATHEMATICAL SCIENCES. Permutations and combinations, probability, voting methods, elementary statistics, and mathematics of finance. *Prerequisite:* High school algebra.

MATH 1309 (3). 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 C- or higher in MATH 1303.

MATH 1337 (3). CALCULUS I. Differential and integral calculus for algebraic, trigonometric functions, and other transcendental functions, with applications to curve sketching, velocity, maximum-minimum problems, area and volume. (Credit not allowed for both MATH 1309 and 1337.) *Prerequisite:* Placement out of MATH 1304 or a C- or higher in MATH 1304.

MATH 1338 (3). CALCULUS II. A continuation of MATH 1337 through differential and integral calculus, areas, techniques of integration, improper integrals, and infinite sequences and series, including Taylor series. *Prerequisite:* C- or higher in MATH 1337 (or MATH 1309 and departmental permission).

MATH 1340 (3). CONSOLIDATED CALCULUS. A combined course in Calculus I and II for students with a background in Calculus I. Students receive credit for both this course and MATH 1337 if they receive a C- or higher. Students may not receive credit for both MATH 1338 and MATH 1340. *Prerequisite:* A score of 3 or higher on the AB or BC Calculus AP exam, or permission of the Mathematics Department.

MATH 2339 (3). CALCULUS III. A continuation of MATH 1338. Includes parametric equations, polar coordinates, partial differentiation, multiple integrals, and vector analysis. *Prerequisite:* C- or higher in MATH 1338 or 1340.

MATH 2343 (3). ELEMENTARY DIFFERENTIAL EQUATIONS. First-order equations, linear equations, Laplace transform linear systems, and phase plane. *Prerequisite:* C- or better in MATH 1338 or 1340.

MATH 3308 (3). INTRODUCTION TO DISCRETE MATHEMATICS. Introduces logic, set theory, graph theory, recurrence relations, and combinatorics. Presents mathematical foundations and applications of these subjects. Credit is not allowed for both CSE 2353 and MATH 3308. *Prerequisite:* C- or higher in MATH 1338 or 1340.

MATH 3315 (3). 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. Students registering for this course must also register for an associated computer laboratory. *Prerequisites:* C- or better in MATH 1338 or 1340, and in CSE 1341 or 1342. *Corequisite:* MATH 3353.

MATH 3316 (3). INTRODUCTION TO HIGH-PERFORMANCE SCIENTIFIC COMPUTING. An elementary survey course that includes techniques for root-finding, interpolation, functional approximation, linear equations, and numerical integration. Computational work focuses on the Python and C++ programming languages using Linux. *Prerequisites:* C- or higher in MATH 1338 or 1340, and in CSE 1342. *Corequisite:* MATH 3353.

MATH 3334 (3). 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:* C- or higher in MATH 2343.

MATH 3337 (3). 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:* C- or higher in MATH 2343, 2339.

MATH 3353 (3). INTRODUCTION TO LINEAR ALGEBRA. Matrices and linear equations, Gaussian elimination, determinants, rank, geometrical notions, eigenvalue problems, coordinate transformations, norms, inner products, orthogonal projections, and Gram-Schmidt and least squares. No credit is given if taken after MATH 5353. *Prerequisite:* C- or higher in MATH 1338 or 1340.

MATH 4335 (3). MATHEMATICAL BIOLOGY. Introduction of mathematical models of biological systems. Also, population dynamics, infectious diseases, population genetics, and molecular and cellular biology. *Prerequisites:* C- or higher in MATH 2343, 3353.

MATH 4338 (3). ANALYSIS. Sequences and series of real numbers and functions, properties of continuous functions, differentiation and integration with some attention paid to higher dimensions. *Prerequisite:* C- or higher in MATH 3308 or permission of instructor.

MATH 4351 (3). THEORY OF NUMBERS. Classical number theory, including divisibility, congruencies, quadratic reciprocity, Diophantine equations, and number theoretic functions. *Prerequisite:* C- or higher in MATH 3308 or permission of instructor.

MATH 4355 (3). GROUPS AND RINGS. Basic properties of groups, rings and fields, homomorphisms, normal subgroups, integral domains, ideals, algebraic extension fields, geometric constructions. *Prerequisite:* C- or higher in MATH 3308 or permission of instructor.

MATH 4370 (3). INTRODUCTION TO PARALLEL SCIENTIFIC COMPUTING. An introduction to parallel computing in the context of scientific computation. *Prerequisites:* MATH 3316 and 3353, or permission of instructor.

MATH 4381 (3). INTRODUCTION TO GENERAL TOPOLOGY. Elementary topology of the line and plane, metric spaces, and general topological spaces. Also, continuity of mappings, connectedness, compactness, completeness, and fixed-point theorems. *Prerequisite:* C- or higher in MATH 3308 or permission of instructor.

MATH 5315 (3). 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:* MATH 2343, and MATH 3315/CSE 3365 or MATH 3316; a programming course (e.g., C, Fortran, or MATLAB).

MATH 5316 (3). 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 is in MATLAB, with a focus on algorithms. *Prerequisites:* MATH 3353; MATH 3315/CSE 3365 or MATH 3316.

MATH 5331 (3). 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:* C- or higher in MATH 3337.

MATH 5334 (3). 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, and Bessel functions. *Prerequisite:* C- or higher in MATH 3337.

MATH 5353 (3). LINEAR ALGEBRA. Spectral theory of Hermitian matrices, Jordan normal form, Perron-Frobenius theory, and convexity. Applications include image compression, Internet page ranking methods, optimization, and linear programming. *Prerequisite:* C- or better in MATH 3353.

PHILOSOPHY

www.smu.edu/philosophy

Professor Eric Barnes, **Department Chair**

Professors: Eric Barnes, Doug Ehring, Robert Howell, Steven Sverdlik. **Associate Professors:** Philippe Chuard, Justin Fisher, Matthew Lockard, Jennifer Matey, Luke Robinson, Brad Thompson. **Senior Lecturer:** Ken Daley. **Lecturers:** Kirsten Egerstrom, Stephen Hiltz.

General Information

The Philosophy Department is well known for strength in ethics, moral psychology, metaphysics, epistemology, philosophy of mind and philosophy of science. Students focus on the development of skills in reasoning, their understanding of arguments and viewpoints, the critical evaluation of varied perspectives, and clear written and oral communication. The critical thinking skills developed in the major and minors are of benefit to students in many disciplines and are especially useful as preparation for law school. The department offers a B.A. in Philosophy and minors in Philosophy and in Ethics. Courses include core areas of philosophy and specialized topics such as animal rights, philosophy of law and philosophy of mind.

Bachelor of Arts With a Major in Philosophy

The B.A. degree requires 30 credit hours of coursework in philosophy, including at least 21 credit hours in advanced courses (3000 level or above). At least 12 hours in any one world language are strongly recommended.

Requirements for the Major	*Credit Hours*
Core Courses	12
PHIL 1301, 3351, 3352 One from PHIL 3310–3319	
Electives	18
Six additional PHIL courses, with at least four courses at the 3000 level or above	
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Departmental Distinction

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.

Minor in Philosophy

The minor is available to students who are not seeking the B.A. in philosophy. Philosophy requires 15 credit hours of coursework in philosophy, including at least 9 credit hours in advanced courses (3000-level or above).

Requirements for the Minor	*Credit Hours*
PHIL 3351 *or* 3352	3
Four additional PHIL courses, with at least two courses at the 2000 level or above	12
	15

Minor in Ethics

The Minor in Ethics provides students with opportunities to explore not only questions of value, justice, responsibility and the moral life, but also philosophical treatments of ethics that are foundational for the critical discussion of ethical issues in other fields, such as law, economics and public policy. Students can choose from courses in ethical and political theory, courses in applied and practical ethics, and courses on specialized topics such as liberty, neuroethics and philosophy of law. The minor is designed to provide students with a strong foundation in ethics, along with skills in reasoning, analysis and the critical evaluation of ethical and philosophical issues, positions and arguments.

The Minor in Ethics may be easily combined with majors or minors in other disciplines (such as Economics, Environmental Studies, Human Rights, Political Science, Public Policy, and Women's and Gender Studies), as many courses may be counted toward multiple majors or minors.

Requirements for the Minor. The Minor in Ethics requires at least 15 credit hours of coursework, including at least four courses (12 hours) in philosophical ethics. Three of the required courses in philosophical ethics (9 hours) must come from the department's advanced sequence in ethics (PHIL 3371–3381), and the fourth (3 hours) must come from that same sequence or from the department's introductory sequence in ethics (PHIL 1316–1318). Upon petition to the chair of the department, other philosophy courses, including PHIL 3310 and PHIL 4393 or 4394, may fulfill the foregoing requirements provided their topics and contents are suitable. The remaining course (3 hours) must come from the department's ethics courses, the department's non-ethics courses, or a list of approved courses offered by other departments.

It is recommended that each student minoring in ethics take one course from the department's introductory sequence in ethics (PHIL 1316–1318), along with at least one course in ethical theory (PHIL 1316, 3371, 3372, 3380).

Requirements for the Minor	*Credit Hours*
Core Courses	12
Any four from the following, with at least 9 hours at the 3000-level or above. PHIL 1316, 1317, 1318, 3371, 3372, 3373, 3374, 3375, 3376, 3377, 3379, 3380, 3381	
Electives	3
One additional core course from the list above, one additional PHIL course, or one course from the following list: ADV 2375, ANTH 2380, COMM 2328, HRTS 3301/HIST 3301, JOUR 2302, PLSC 4371 (Students may count only one of PLSC 4371 or PHIL 1318 toward the Minor in Ethics), RELI 3309/CF 3361, SOCI 4373	
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Notes

- Students majoring in philosophy may not minor in ethics.
- Students may not count both PHIL 1318 and PLSC 4371 toward the minor in ethics.

The Courses (PHIL)

PHIL 1300 (3). INTRODUCTION TO CRITICAL THINKING. Learning to analyze, evaluate, and present information in order to better assess one's own beliefs and to persuade others more effectively.

PHIL 1301 (3). 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 may be of use within various professional areas, including law.

PHIL 1305 (3). INTRODUCTION TO PHILOSOPHY. A general introduction to the central questions of philosophy. We will discuss topics from such areas as 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.

PHIL 1306 (3). 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 the following: 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 people understand experiences radically different from their own? What is the self? Can one survive the death of the body? The focus of the course is on arguments for and against proposed solutions to philosophical problems concerning mind, machines, and persons.

PHIL 1316 (3). INTRODUCTION TO ETHICS. Introduces philosophical ethics focusing on questions in ethical theory. Topics vary, but the following are representative. What makes our lives good or bad? What makes our actions morally right or morally wrong? Is there a real, objective difference between good and bad, right and wrong? Why be moral? Focuses on arguments for and against major positions on issues such as these.

PHIL 1317 (3). BUSINESS ETHICS. Examines the moral dimensions of actions and practices in the business world. Students explore ethical theories and standards of evaluation for actions and practices generally, and discuss how these theories and standards apply to a variety of issues in business. Topics vary, but the following are representative: advertising, capitalism vs. socialism, corporate culture, product quality and safety, the responsibilities of corporations to the societies that sustain them, the use of animals in product testing, and working conditions and compensation.

PHIL 1318 (3). CONTEMPORARY MORAL PROBLEMS. An introduction to philosophical ethics focusing on questions in applied ethics. Students begin by exploring ethical theories and philosophical methods. The majority of the course is devoted to applying those theories and methods 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 (in some sections) writing argumentative essays about these issues.

PHIL 1319 (3). TECHNOLOGY, SOCIETY, AND VALUE. Advances in technology are raising many ethical issues that require serious considerations. We will discuss issues surrounding such technologies and how they affect the views of warfare, privacy, human enhancement, and artificial intelligence.

PHIL 3161 (1). PHILOSOPHY OF SCIENCE. Covers fundamental issues in the philosophy of science, including the nature of scientific theories, the distinction between science and pseudoscience, the scientific method, the logic of theory confirmation, and the realist versus antirealist debate. *Corequisite:* CHEM 1304.

PHIL 3301 (3). INTERMEDIATE LOGIC. Introduces the formal theory of the logical systems students have already learned to use: sentential logic and predicate logic. Students learn to prove the completeness and soundness of both of these systems. Also, simple nonstandard logical systems such as modal, epistemic, or deontic logic, if time permits. *Prerequisite:* PHIL 1301 or its equivalent.

PHIL 3302 (3). 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.

PHIL 3305 (3). PHILOSOPHY AND GENDER. Considers whether or not there are differences between the sexes and whether or not Western science, philosophy, and ethics have been dominated by male thinking. Also, current issues such as pornography, censorship, rape, and reproductive technologies. Students examine writings by feminist philosophers and their critics.

PHIL 3310 (3). ADVANCED TOPICS IN PHILOSOPHY. May be repeated for credit.

PHIL 3311 (3). 20TH-CENTURY PHILOSOPHICAL ANALYSIS. An examination of the method of philosophical analysis as practiced by such 20th-century philosophers as Moore, Russell, Wittgenstein, Quine, and Austin.

PHIL 3312 (3). INTRODUCTION TO PHILOSOPHY OF LANGUAGE. A systematic treatment of such topics as the nature of linguistic reference, meaning, synonymity, truth, vagueness, and metaphor. Also, 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.

PHIL 3313 (3). KNOWLEDGE AND SKEPTICISM. 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.

PHIL 3314 (3). METAPHYSICS. Some of the most central and traditional questions in philosophy are metaphysical: Do objects really exist? What are they? And what are persons: do we persist over time, can we survive change? Are we really free, or are all our actions determined by the laws of nature? Are our minds simply reducible to our brains? Are there such things as souls? How about the properties of things – objects have sizes and shapes, we have nationalities and genders, but what are these properties exactly? Can we know anything about the ultimate structure of reality? Does it include God? Is science the only way to discover what really exists and how things really are? This course offers a systematic approach to these questions and others.

PHIL 3315 (3). PHILOSOPHY OF MIND. A systematic treatment of the nature of consciousness, self, and person.

PHIL 3316 (3). 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 fields related to cognitive science (philosophy, computer science, computer engineering, psychology, linguistics, biology, or anthropology).

PHIL 3317 (3). PHILOSOPHY OF PERCEPTION. We see penguins (and other things), we hear trumpets (and other things), we smell fresh bread (and other things), taste mustard, touch water, etc. Perceptual experiences like these raise many central philosophical questions. Do they represent reality in an accurate way? Can they provide knowledge about our environment? Is there a special kind of consciousness such experiences instantiate, and if so what is it? This course addresses a host of questions about the nature of our perceptual experiences and surveys some of the answers, including some of the more significant results obtain by the cognitive neurosciences.

PHIL 3318 (3). COLORS, SOUNDS, AND OTHER APPEARANCES. Objects look colored, they produce sounds, smells, and some have a taste. But what are these sensory appearances – colors, sounds, tastes, smells, etc. – exactly? Do they even exist or are they mere appearances produced by our brains? Could they be identified or reduced to objective physical features of the objects we perceive, or are they somehow mere projections of our minds? What can science and philosophy tell us about colors, sounds, and the like? This course offers a systematic analysis of some of these appearances, of their nature, their objectivity, and what can best explain them.

PHIL 3319 (3). IDENTITY, PERSONS, AND OTHER OBJECTS. Persons and individuals like you and me raise a host of central philosophical questions. You are, we assume, the very same person you were three minutes ago, distinct from all the other individuals on the surface of the planet. But how is that so, and how it is even possible? Persons, just like tables, chairs, and other particular objects, seem to retain their identity through time despite the changes they go through: they persist and survive change. Does this mean each particular person (and each particular table) has a very specific essence it keeps throughout its life? What exactly constitutes a person? And what do we mean by identity anyway, in this context? And what of the powerful arguments suggesting that persons (and other objects) cease to exist whenever they go through the most trivial change, or that the existence of persons and other objects is a mere illusion? This course will consist in a systematic survey of some of the central answers to some of these and other related questions.

PHIL 3320 (3). CAUSATION. Intensive investigation of the metaphysics of causation. Examines regularity theory, counterfactual theory, probabilistic theory, and process theories. *Prerequisite:* Permission of instructor.

PHIL 3321 (3). TIME, SPACE, AND METAPHYSICS. Does time pass? Do the past and the future exist? Is space a thing? What are the laws of nature? This course introduces some central issues in the metaphysics of science.

PHIL 3322 (3). PLEASURE AND PAIN. Explores the nature of pleasure and pain, their relationships to other mental states, and their significance and value. Do pleasures and pains have intentional content? If so, what do they represent? How are pleasure and pain related to motivation? What can we learn from neuroscience concerning pleasure and pain? Are pleasure and pain essential to what makes life worth living? A previous philosophy course is recommended, but not required.

PHIL 3333 (3). TOPICS IN PHILOSOPHY. May be repeated for credit.

PHIL 3351 (3). HISTORY OF WESTERN PHILOSOPHY (ANCIENT). A study of the major philosophers from Thales to Plotinus, including Plato and Aristotle.

PHIL 3352 (3). HISTORY OF WESTERN PHILOSOPHY (MODERN). Survey course in the history of modern philosophy covering the modern period, from Descartes to Hume, including Leibniz, Spinoza, Locke, and Berkeley. We will examine many seminal writings in philosophy on such key issues as rationalism and empiricism, the nature of external reality and one's knowledge of it, the existence and nature of God, the relation between mind and body, causation, induction, and the nature of morality and moral action. Satisfies one part of the history requirement for philosophy majors; may be used to satisfy the history requirement for philosophy minors.

PHIL 3362 (3). CREATIVITY, DISCOVERY, AND SCIENCE. 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 include the following: What is science, and what is the nature of scientific method? What is the nature of evidence and explanation in science? Addresses in 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 scientific discovery? Combines 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 some science background equips students to appreciate the relevant issues.

PHIL 3363 (3). AESTHETIC EXPERIENCE AND JUDGMENT. Attention is devoted to the following 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? Students also consider the role of emotion in art, the problem of correct interpretation, and the nature of tragedy.

PHIL 3364 (3). PHILOSOPHY OF BIOLOGY. A survey of topics in the philosophy of biology, including evolution versus creationism, fitness, units of selection, adaptationism, biological taxonomy, evolution in humans, cultural evolution, and niche construction.

PHIL 3366 (3). PHILOSOPHY IN LITERATURE. A nontechnical introduction to philosophy by an examination of traditional philosophical problems embodied in great works of fiction.

PHIL 3370 (3). 19TH-CENTURY PHILOSOPHY. A detailed study of selected major thinkers from the 19th century, such as Kant, Hegel, Kierkegaard, Nietzsche, Schoepenhauer, Fichte, Feuerbach, and Marx.

PHIL 3371 (3). SOCIAL AND POLITICAL PHILOSOPHY. Explores central questions in social and political philosophy. Topics vary, but the following are representative. What forms of government are most reasonable and morally defensible? What is justice, and how might it be embodied in a system of government? Are there such things as natural rights? What is the basis for saying that we have rights to freedom of speech and religion? What would constitute a just or fair distribution of the benefits and burdens of social cooperation? Do citizens in a modern, democratic state have a moral obligation to obey its laws? When, if ever, is it legitimate for a state to go to war?

PHIL 3372 (3). LIBERTY. Investigates the topics of freedom and autonomy primarily from the standpoint of social and political philosophy. Students explore the nature of freedom and its role in a good society along with the nature of autonomy (self-governance) and its role in a good life. Also, the distinction between negative and positive liberty, the nature of coercion, the republican theory of freedom, the nature of personal autonomy, the value of freedom, and other topics.

PHIL 3373 (3). PHILOSOPHY OF CRIMINAL LAW. By what right does society punish some people? What is the correct amount of punishment for a given crime? Why should the law excuse some people who are convicted of criminal acts? We examine the classical philosophical theories of retributivism and utilitarianism, as well as some contemporary writers who try to combine them. Each year the course also focuses on one important issue in the contemporary criminal justice system of the U.S. Recent topics have included the legalization of marijuana, convictions of innocent persons, stop-and-frisk policing, and prosecutorial discretion.

PHIL 3374 (3). PHILOSOPHY OF LAW. This course explores some central and interrelated issues in philosophy of law, or jurisprudence, with a particular emphasis on the role that morality plays in our understanding of law and in the interpretation and application of the law. Here are some of the questions we will consider: When and why does the content of law – what the law is – depend on the content of morality – on what is right and wrong, just and unjust, fair and unfair, etc.? When and how does interpreting and applying laws (statutes, precedents, etc.) involve making value judgments, including moral judgments? Does the United States Constitution enact the "original understanding" of freedom of speech, due process of law, equal protection of the laws, and so on? Or does it, instead, direct us to apply our own, perhaps quite different, understandings of these concepts? (The latter view is called "the moral reading" of the Constitution.) Is there a moral obligation to obey the law? When and why is punishing those who break the law morally justified? Satisfies elective requirements in the following majors and minors: philosophy, ethics, human rights, and law and legal reasoning.

PHIL 3375 (3). 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 in moral philosophy. May be repeated for credit. Recently offered topics include the meaning of life, neuroethics, Plato's ethical thought, practical rationality, and procreation & parenthood.

PHIL 3376 (3). BIOETHICS. An examination of ethical questions arising within medical practice, medical research, and the life sciences.

PHIL 3377 (3). ANIMAL RIGHTS. Explores the nature of nonhuman animals, their moral status, and the way we treat them. First we will consider questions about the minds of animals. Are animals conscious? Can they think about the future? Are they self-aware? Exploring those questions will prepare us for our second set of topics about the moral status of animals. Do animals have rights like humans do? Do we have moral obligations to animals? Is there a difference between the moral status of animals that fall into different categories (pets, domesticated animals, and wild animals)? Third, we will examine the way animals are used for food, for entertainment, and in biomedical research. What laws already protect animals and what changes are needed?

PHIL 3379 (3). ENVIRONMENTAL ETHICS. Explores society's ethical obligations concerning the natural world. Topical issues like climate change, endangered species, recycling, the population explosion, and wilderness preservation are covered from a variety of philosophical perspectives.

PHIL 3380 (3). ETHICS: MORALITY, SELF-INTEREST, AND JUSTICE. Explores issues in normative ethical and political theory, with a particular emphasis on morality, self-interest, and justice. Topics vary, but the following are representative. Might enlightened self-interest be the basis of morality? Is a morally right action one that maximizes overall happiness or well-being, or are there moral rights or duties that prohibit the sacrifice of individuals or their interests for

the sake of the greater good? Does individual well-being (or self-interest) consist of pleasure and freedom from pain? Do our subjective interests (our desires or preferences) determine what is ultimately best for us, or are there desire-independent goods, such as knowledge or moral virtue? To what extent, if any, does justice permit inequality of income or wealth? Do individuals have "natural" rights that prohibit the state from using certain means (e.g., taxes and transfers) to promote greater social welfare or less economic inequality?

PHIL 3381 (3). NEUROETHICS. Neuroethics concerns the ethical questions raised by the brain sciences. Is neuroenhancement morally problematic? Should the use of brain scans be limited? What does neuroscience tell us about ethical judgment?

PHIL 3382 (3). 20TH-CENTURY EUROPEAN PHILOSOPHY. An examination of some methods and principles of European philosophies in the 20th century. Students study the following philosophical schools: phenomenology, existentialism, neo-Kantianism, life-philosophy, hermeneutics, and neo-Marxist critical theory.

PHIL 3383 (3). AMERICAN PHILOSOPHY. Historical development and contemporary themes in American philosophy. Varying emphasis may be placed on trends (e.g., Native American thought, pragmatism), historical figures (e.g., Dewey, Quine), or influential contemporary figures (e.g., Brandom).

PHIL 4194 (1). INDEPENDENT STUDY AND RESEARCH.

PHIL 4381 (3). PHILOSOPHY IN THE IBERO-AMERICAN WORLD. A survey of Latin American philosophy as it relates to the social and cultural development of Latin America. (SMU-in-Madrid only.)

PHIL 4393 (3). INDEPENDENT STUDY AND RESEARCH. Special topics to be selected by the student in consultation with the department. *Prerequisites:* Senior standing and departmental approval.

PHIL 4394 (3). INDEPENDENT STUDY AND RESEARCH. Special topics to be selected by the student in consultation with the department. *Prerequisites:* Senior standing and departmental approval.

PHYSICS

www.smu.edu/physics

Associate Professor Thomas W. Carr, ***Interim*** **Department Chair**

Professors: Thomas Coan, Robert Kehoe, Fred Olness, Ryszard Stroynowski, Jingbo Ye. **Associate Professors:** Jodi Cooley-Sekula, Kent Hornbostel, Pavel Nadolsky, Stephen Sekula, Roberto Vega. **Senior Lecturers:** Simon Dalley, Randall Scalise. **Lecturer:** Durdana Balakishiyeva. **Research Professor:** Datao Gong. **Research Associate Professor:** Tiankuan Liu. **Research Assistant Professors:** Sami Kama, Chonghan Liu.

General Information

The Physics Department offers a program consisting of courses in classical and modern physics, and research studies in both experimental and theoretical particle physics as well as in dark matter searches. The research activities of the faculty focus primarily in high energy, elementary particle physics and related fields. The advanced classes are small, so there are many opportunities 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.

Bachelor of Science With a Major in Physics

This degree program is designed for students who plan careers in physics in industry, research laboratories or academia. 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.

Requirements for the Major	*Credit Hours*
Physics	40
PHYS 1105, 1106, 1303, 1304 (*or* 1307 and 1308), 3305, 3340, 3344, 3374, 4211, 4321 *or* 3345, 4392, 5382, 5383 6 hours of physics electives or in related fields with departmental permission	
Computer Science and Engineering	3
CSE 1341 *or* 1342	
Mathematics	15
MATH 1337, 1338, 2339, 2343, 3353	
	58

Bachelor of Arts With a Major in Physics

This degree program is appropriate for students who wish to combine a physics curriculum with a broad liberal arts program with the intention of pursuing careers in medicine, teaching, business or government.

Requirements for the Major	*Credit Hours*
Physics	30
PHYS 1105, 1106, 1303, 1304 (*or* 1307 and 1308), 3305, 3344, 4211, 4392, 5382 8 hours of physics electives or in related fields with departmental permission	
Mathematics	15
MATH 1337, 1338, 2339, 2343, 3353	
	45

Departmental Distinction

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 3.500. 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.

Minor in Physics

A minor in physics is particularly appropriate for majors in the natural sciences, excluding physics but including prehealth, prelaw, Earth science, biology, mathematics and engineering.

Requirements for the Minor	*Credit Hours*
PHYS 1105, 1106, 1303, 1304 (*or* 1307 and 1308) Additional 9 hours of advanced coursework	
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The Courses (PHYS)

PHYS 1010 (0). HONORS INTRODUCTORY PHYSICS. Applications of concepts taught in PHYS 1303, 1304, 1307, and 1308 in modern science and technology. Zero-credit course leading to the Honors designation on transcript. *Corequisite:* PHYS 1303, 1304, 1307, or 1308.

PHYS 1100 (1). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 1101 (1). INTRODUCTION TO THE UNIVERSE. Topics in cosmology (designed for first-year students), including expansion of the universe, the cosmic microwave background, cosmic nucleosynthesis and cosmic inflation; treated qualitatively but with illustrative mathematics. *Prerequisite or corequisite:* Comfortable with calculus or taking it concurrently.

PHYS 1105 (1). MECHANICS LABORATORY. One 3-hour laboratory period per week. Taken with PHYS 1303, 1307 if 8 hours of credit, including laboratory, are needed.

PHYS 1106 (1). ELECTRICITY AND MAGNETISM 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.

PHYS 1200 (2). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 1300 (3). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 1301 (3). THE IDEAS OF MODERN PHYSICS. Presents cosmology, relativity, quantum mechanics, and particle physics in an essentially descriptive, nonmathematical framework accessible to all SMU students.

PHYS 1303 (3). INTRODUCTORY MECHANICS. For science and engineering majors. Covers vector kinematics, Newtonian mechanics, gravitation, rotational motion, special relativity, and structure of matter. *Prerequisite or corequisite:* MATH 1337.

PHYS 1304 (3). INTRODUCTORY ELECTRICITY AND MAGNETISM. For science and engineering majors. Covers electricity, magnetism, electromagnetic radiation, and special relativity. *Prerequisite or corequisite:* MATH 1338.

PHYS 1307 (3). GENERAL PHYSICS I. For life sciences majors. Covers vector kinematics, Newtonian mechanics, gravitation, rotational motion, vibrations, waves, and fluids. *Prerequisite or corequisite:* MATH 1337.

PHYS 1308 (3). GENERAL PHYSICS II. For life sciences majors. Covers electricity, magnetism, electromagnetic radiation, and geometrical and physical optics. *Prerequisite:* PHYS 1303 or 1307.

PHYS 1309 (3). ASTRONOMY. A course in planetary and stellar astronomy, with an introduction to cosmology. Intended for the nonscience major, with no *Prerequisites*. Observation sessions included. Does not include laboratory component.

PHYS 1311 (3). ELEMENTS OF ASTRONOMY. Planetary and stellar astronomy, including laboratory and observations.

PHYS 1313 (3). 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.

PHYS 1314 (3). 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.

PHYS 1320 (3). 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.

PHYS 1403 (4). GENERAL PHYSICS. Equivalent of PHYS 1303 and 1105.

PHYS 1404 (4). GENERAL PHYSICS. Equivalent of PHYS 1304 and 1106.

PHYS 1407 (4). GENERAL PHYSICS. For life sciences majors. Covers vector kinematics, Newtonian mechanics, gravitation, rotational motion, vibrations, waves, and fluids. *Prerequisite or corequisite:* MATH 1337.

PHYS 1408 (4). GENERAL PHYSICS. For life sciences majors. Covers electricity, magnetism, electromagnetic radiation, and geometrical and physical optics. *Prerequisite:* PHYS 1303 or 1307.

PHYS 2100 (1). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 2200 (2). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 2300 (3). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3100 (1). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3200 (2). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3300 (3). SPECIAL TOPICS ABROAD. Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3305 (3). INTRODUCTION TO MODERN PHYSICS. For science and engineering majors. Covers special relativity, elements of quantum physics, structure of atoms, molecules and solids, nuclear physics, and elementary particles. *Prerequisite:* PHYS 1304 or 1308.

PHYS 3310 (3). 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. *Prerequisite:* MATH 2339. *Prerequisite*s or corequisites: PHYS 3305, MATH 2343.

PHYS 3320 (3). 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. 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. *Prerequisites:* PHYS 1303, 1304 or equivalent. Recommended: PHYS 3344.

PHYS 3333 (3). 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.

PHYS 3340 (3). COMPUTATIONAL PHYSICS. Introduction to the modeling of physical systems. Emphasis is on algorithm selection and implementation for simulating classical and quantum physics. *Prerequisite or corequisite:* MATH 2343. Prior programming experience recommended.

PHYS 3344 (3). 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 Varangian mechanics. *Prerequisite:* PHYS 1303 or 1307. *Prerequisite or corequisite:* MATH 2339.

PHYS 3345 (3). 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 3344.

PHYS 3350 (3). COMPUTATIONAL PHYSICS. The principles of analog and digital electronics relevant for designing instrumentation for modern physics experiments. *Prerequisite:* PHYS 1304 or equivalent.

PHYS 3368 (3). PRINCIPLES OF ASTROPHYSICS AND COSMOLOGY. Cosmic distance scales, physics of stars, expansion of the universe, cosmic nucleosynthesis, and other selected topics as appropriate. *Prerequisite:* PHYS 3305.

PHYS 3374 (3). THERMODYNAMICS AND STATISTICAL MECHANICS. Basic concepts of thermodynamics and statistical mechanics, with emphasis on quantum statistics. Also, the laws of thermodynamics; entropy; and Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics. *Prerequisite:* PHYS 3305. MATH 2343 recommended.

PHYS 4049 (0). UNDERGRADUATE RESEARCH. For students who hold research fellowships but are not enrolled in any credit hour courses. No tuition. *Prerequisite:* PHYS 3305 or consent of instructor.

PHYS 4112 (1). LABORATORY PHYSICS II. Intermediate-level experimental physics. Approximately one experiment per week. One 3-hour laboratory period per week. *Prerequisites:* PHYS 1106, 3305.

PHYS 4190 (1). SPECIAL PROJECTS IN PHYSICS. Directed study of special topics. For physics majors only. *Prerequisites:* Junior or senior classification and permission of department.

PHYS 4211 (2). LABORATORY PHYSICS I. Introduction to experimental physics. Approximately one experiment per week. One 2-hour laboratory period per week. *Prerequisites:* PHYS 1105, 1106, 3305.

PHYS 4213 (2). ADVANCED LABORATORY PHYSICS.

PHYS 4290 (2). SPECIAL PROJECTS IN PHYSICS. Directed study of special topics. For physics majors only. *Prerequisites:* Junior or senior classification and permission of department.

PHYS 4321 (3). METHODS OF THEORETICAL PHYSICS. Matrices, determinants, linear algebra, complex variables, inhomogeneous equations, Sturm-Liouville theory, partial differential equations, special functions, Fourier series and integral transformations, integral equations, calculus of variations, and applications. *Prerequisites:* MATH 2339, 2343.

PHYS 4375 (3). RESEARCH. For physics majors. Students participate in physics research with a member of the faculty of the Physics Department. *Prerequisite:* Instructor's permission.

PHYS 4390 (3). SPECIAL PROJECTS IN PHYSICS. Directed study of special topics. For physics majors only. *Prerequisites:* Junior or senior classification and permission of department.

PHYS 4392 (3). INTRODUCTION TO ELECTROMAGNETIC THEORY. Fundamental principles of electrodynamics, including electrostatics, magneto statics, electric potential, electric and magnetic fields in matter, simple behavior of time-dependent electric and magnetic fields, and Maxwell's equations. *Prerequisites:* PHYS 1304; MATH 2339, 2343. PHYS 4321 recommended.

PHYS 5161 (1). SELECTED TOPICS IN PHYSICS FOR HIGH SCHOOL TEACHERS. Additional information is available from the department.

PHYS 5337 (3). 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, and energy bands in solids.

PHYS 5380 (3). CONCEPTS OF EXPERIMENTAL PARTICLE PHYSICS. Principles of elementary particle physics and the experiments by which one learns the laws obeyed by these particles, with reading of scientific papers. *Prerequisite:* PHYS 3305 or equivalent. PHYS 5382 is recommended.

PHYS 5382 (3). INTRODUCTION TO QUANTUM MECHANICS. An introduction to the principles of quantum mechanics, the Schrodinger equation and solutions for one-dimensional problems, the Dirac formalism, angular momentum and quantum mechanics in three dimensions, the central potential, spin, and additions of spins. *Prerequisites:* PHYS 3305, MATH 3353.

PHYS 5383 (3). ADVANCED QUANTUM MECHANICS. Applications and approximation methods in quantum mechanics. Also, applications to laser physics, solid-state physics, molecular physics, and scattering. *Prerequisite:* PHYS 5382.

PHYS 5384 (3). QUANTUM PHYSICS II. Quantum statistics; band theory of solids; superconductivity, magnetism, and critical phenomena; nuclear physics; and physics of elementary particles. *Prerequisite:* PHYS 5383 or permission of instructor

PHYS 5393 (3). ELECTROMAGNETIC WAVES AND OPTICS. Theory and applications of electromagnetic wave radiation, propagation, and scattering. Also, geometrical and physical optics, guided waves, lasers, coherent optics, and interferometry and holography. *Prerequisite:* PHYS 4392, equivalent, or consent of instructor.

PHYS 5395 (3). 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.

PHYS 5398 (3). APPLICATIONS OF QUANTUM MECHANICS. The principles of quantum theory are used in a study of radiative transition in atoms and molecules, quantum statistics, band theory of solids, semiconductor theory, and laser physics. *Prerequisite:* PHYS 5382 or equivalent.

POLITICAL SCIENCE

www.smu.edu/politicalscience

Professor Dennis Ippolito, **Department Chair**

Professors: James Hollifield, Dennis Ippolito, Calvin Jillson, Michael Lusztig, Harold Stanley, Stephen Wegren. **Associate Professors:** Pamela Corley, Joseph Kobylka, Luigi Manzetti, Joshua Rovner, Dennis Simon, Hiroki Takeuchi, Matthew Wilson. **Assistant Professor:** Karisa Cloward.

General Information

The Political Science Department offers a curriculum that addresses political ideas, institutions and processes in such regional settings as Asia, Europe, Latin America and the U.S., and in such problem settings such as international relations, economic and social policies, and constitutional and public law. Students study with nationally visible faculty, have the opportunity to become involved in significant research projects and are eligible for summer or term internships in Washington, D.C.

The department offers a B.A. and a minor in political science, with four available concentrations. Undergraduate courses include introductory courses (at the 1000 level) which 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.

Note: Offerings for independent study, research and study abroad (PLSC 4102, 4202, 4302, 4301, 4401, 4402, 4403, 4404, 4304, 4306, 4307) are available to majors in political science. Students must have departmental approval prior to registering for these courses. Such courses may not be counted toward departmental subfield requirements.

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.

Bachelor of Arts With a Major in Political Science

At least 18 advanced hours must be completed in residence. No coursework counting toward the major may be taken pass/fail. The following additional requirements apply to the 27 advanced hours (3000 level and above):

- A minimum of 15 hours of in-class advanced-level courses must be taken on an SMU campus (Dallas, Plano or Taos). In-class hours do not include directed reading courses (PLSC 4102, 4202, 4302), internships (PLSC 4306) and departmental distinction thesis (PLSC 4307). SMU campus courses do not include transfer courses, Washington term courses (PLSC 4401, 4402, 4403, and 4404) and courses taken in SMU-approved study abroad programs.

- A maximum of three hours of directed reading courses (PLSC 4102, 4202, and 4302) or internships (PLSC 4306) may count toward the major.
- A maximum of 15 hours of (preapproved) advanced-level courses in SMU-approved study abroad programs may be counted toward the major. (These hours will not count toward the required 15 hours of in-class, on-campus, advanced-level courses specified above.)

Requirements for the Major	*Credit Hours*
Introductory Courses	6
(any two PLSC courses at the 1000 level)	
Advanced Courses (3000 level or above)	27
At least two courses from two groups and an additional course from a third group:	
American Government and Politics	
Comparative Politics	
Political Theory	
International Relations	
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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 3.000 overall GPA at graduation.
2. A minimum 3.500 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.
4. Passing with distinction an oral examination of at least one hour, conducted by a faculty distinction examination committee, which reviews the candidate's thesis and major curriculum.
5. A minimum 3.500 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.

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.

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.

Minor in Political Science

At least half of the advanced hours applied toward a political science minor must be completed through enrollment at SMU. No coursework counting toward the minor may be taken pass/fail. A maximum of six hours of (preapproved) advanced-level courses in SMU-approved study abroad programs may be counted toward the minor.

Requirements for the Minor	*Credit Hours*
Concentration Introductory Courses (one concentration)	3–6
General: PLSC 1320 and one other 1000-level PLSC course *American Politics:* PLSC 1320 *Comparative and International Studies:* PLSC 1340, 1380 *Political Thought:* PLSC 1360	
Concentration Advanced Courses (3000 level or above)	12–15
At least two courses from two groups (and encompassing the student's concentration) and an additional course from a third group if needed: American Government and Politics Comparative Politics Political Theory International Relations	
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The Courses (PLSC)

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)	PLSC 1320, 3124, 3224, 3320–27, 3329, 3330, 3331, 3333–36, 4320–39
Comparative Politics (40–59)	PLSC 1340, 3144, 3244, 3340–42, 3344–52, 3355, 3358–59, 3424, 3444, 4340–44, 4348, 4353–58, 5341
Political Theory (60–79)	PLSC 1360, 3164, 3264, 3360–65, 3370, 3464, 4360–65, 4368, 4369, 4371
International Relations (80–99)	PLSC 1380, 3184, 3284, 3381–84, 3387, 3389, 3390, 3484, 4380–82, 4384–86, 4388, 4391, 4392, 4398, 5383

PLSC 1320 (3). INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS. The organization, functions, and processes of the national government, with particular attention to parties, pressure groups, and other forces that influence its course. Attention is also given to the Texas Constitution.

PLSC 1340 (3). INTRODUCTION TO COMPARATIVE POLITICS. Analyzes and contrasts different patterns of national political development in Western, Marxist-Leninist, and Third World countries. Political dilemmas confronting each type of system will be examined.

PLSC 1360 (3). INTRODUCTION TO POLITICAL THEORY. Introduces political theory through an examination of classical and modern approaches to the study of politics. Addresses how to become knowledgeable about politics and what to do with that knowledge.

PLSC 1380 (3). 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.

PLSC 3124 (1). STUDIES ABROAD: AMERICAN POLITICS AND GOVERNMENT. SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3144 (1). STUDIES ABROAD: COMPARATIVE POLITICS AND GOVERNMENT. SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3164 (1). STUDIES ABROAD: POLITICAL THEORY. SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3184 (1). STUDIES ABROAD: INTERNATIONAL RELATIONS. SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 3224 (2). STUDIES ABROAD: AMERICAN POLITICS AND GOVERNMENT. SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3244 (2). STUDIES ABROAD: COMPARATIVE POLITICS AND GOVERNMENT. SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3264 (2). STUDIES ABROAD: POLITICAL THEORY. SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3284 (2). STUDIES ABROAD: INTERNATIONAL RELATIONS. SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 3320 (3). PRINCIPLES OF PUBLIC POLICY. Public policy is the study of the outcome of the political process. Parties, pressure groups, bureaucracies, and legislative bodies are part of the mix that creates the decisions that govern U.S. domestic social policy, international economic policy, and defense policy. *Prerequisites:* ECO 1311, PLSC 1320. Recommended: ECO 1312 and PLSC 1340 or 1380.

PLSC 3321 (3). 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.

PLSC 3322 (3). THE AMERICAN PRESIDENCY. An evaluation of the office of president in the American political system, with emphasis on the functional and institutional development of the office and presidential leadership in policymaking.

PLSC 3323 (3). 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.

PLSC 3324 (3). STUDIES ABROAD: AMERICAN POLITICS AND GOVERNMENT. SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3325 (3). INTRODUCTION TO LAW. Provides the student with an understanding of the American legal system, covering such substantive areas of law as torts, contracts, property, civil procedure, and criminal law.

PLSC 3326 (3). 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.

PLSC 3327 (3). 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.

PLSC 3329 (3). BUREAUCRACY AND REGULATORY POLITICS. Examines the "fourth branch" of government, including its instructions and organization, the rise of regulatory policymaking in the 20th century, the role of administrative law, the behavior of civil servants and interest groups, and the relationship between bureaucracies and other branches of government.

PLSC 3330 (3). 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 defining individual rights and liberties.

PLSC 3331 (3). MEDIA AND POLITICS. Examines how the media influence the American institutional governing process and citizen engagement in democratic practices such acquisition of political knowledge and political decision-making.

PLSC 3333 (3). ENVIRONMENTAL POLICY. Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

PLSC 3334 (3). PUBLIC OPINION AND AMERICAN POLITICS. The influence of public opinion on American politics and policymaking. Topics 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.

PLSC 3335 (3). JUDICIAL PROCESS. Examines the role played by courts in the American system of government. Topics include the generation of disputes, the tools used by the judiciary to resolve disputes, the ways judges are selected and make decisions, and the impact of those decisions on society and government.

PLSC 3336 (3). CONGRESS, THE PRESIDENT, AND THE CONSTITUTION. An examination of how constitutional interpretation, precedent, and politics affect presidential and congressional powers and the separation of powers with respect to war and foreign affairs, legislation and administration, and budgetary and fiscal policies.

PLSC 3340 (3). 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.

PLSC 3341 (3). COMPARATIVE CONSTITUTIONAL LAW. Explores topics arising in the comparative study of constitutional systems and constitutional questions of law, including addressing comparative approaches to individual rights.

PLSC 3342 (3). MAKING DEMOCRACY WORK. Aims to answer the fundamental question of why democracy thrives in some nations while in others it struggles, and in many more it has not yet taken root.

PLSC 3344 (3). STUDIES ABROAD: COMPARATIVE POLITICS AND GOVERNMENT. SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3345 (3). GOVERNMENTS AND POLITICS OF THE MIDDLE EAST. A survey of modern Middle East governments and politics, including historical, ideological, economic, and social influences on their domestic and foreign policies. Also, analysis of emerging political forms, with some emphasis on modernization problems.

PLSC 3346 (3). JAPANESE POLITICS AND SOCIETY. A survey of the major political and social trends in Japan, focusing on popular attitudes, political participation, and the government's response.

PLSC 3347 (3). GOVERNMENTS AND POLITICS OF AFRICA. The politics of Africa in an international context, emphasizing the problems of race, nationalism, and economic development.

PLSC 3348 (3). GOVERNMENTS AND POLITICS OF LATIN AMERICA. The structure, functions, and operations of government in Latin American countries, with emphasis on political practices and institutions.

PLSC 3349 (3). 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.

PLSC 3350 (3). POLITICS OF CANADA.

PLSC 3351 (3). RUSSIA UNDER PUTIN. A study of contemporary Russia. Students prepare a multifaceted assessment (political, economic, and military development) of the superpower that is and was Russia. (SMU-in-Copenhagen)

PLSC 3352 (3). CHINESE POLITICS. A survey of Chinese political history since the establishment of the People's Republic of China in 1949 and the major challenges confronting the PRC today, evaluating the positive and negative aspects of China's socialist experiment by using a working knowledge of Chinese politics.

PLSC 3355 (3). 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 policymaking, and the economic implications of public policy.

PLSC 3358 (3). GOVERNMENT AND POLITICS OF RUSSIA. Examines attempts to reform the former Soviet Union since 1985, and analyzes 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.

PLSC 3359 (3). 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.

PLSC 3360 (3). 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.

PLSC 3361 (3). MODERN POLITICAL THOUGHT. Main currents of political thought in their historical setting from the 17th century to the present.

PLSC 3362 (3). 20TH-CENTURY POLITICAL THOUGHT. Analysis of the political implications of selected responses to the problems of modern mass society.

PLSC 3363 (3). 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.

PLSC 3364 (3). STUDIES ABROAD: POLITICAL THEORY. SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3365 (3). 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.

PLSC 3370 (3). WOMEN AND POLITICS. An analysis and critique of women's role in politics; theories on women's status and power; and the political activities, ideologies, and programs of feminists, past and present.

PLSC 3381 (3). CURRENT ISSUES IN INTERNATIONAL POLITICS. An interdisciplinary survey of contemporary issues and challenges in the international arena. The student researches and proposes solutions, taking into account the multidimensional aspects of these international challenges.

PLSC 3382 (3). 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 recent times.

PLSC 3383 (3). THE AMERICAN FOREIGN POLICY PROCESS. A survey of the contemporary content and the conduct of American foreign policy.

PLSC 3384 (3). STUDIES ABROAD: INTERNATIONAL RELATIONS. SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 3387 (3). 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.

PLSC 3389 (3). INTERNATIONAL POLITICAL ECONOMY. Introduces the study of international political economy, including the indicators of a new interdependence and globalization: the growth in trade, the expansion of foreign direct investment, and the increase in international migration. Also, the ways nation-states respond to globalization and manage international economic relations.

PLSC 3390 (3). NEGOTIATING INTERNATIONAL TRADE. Examines the means by which countries negotiate international trade. In part, the course is theoretical, examining standard theories of trade. It is also empirical, with hemispheric trade as the substantive focus. The practical aspect of the course is a computer-based simulation exercise that engages with students from other universities.

PLSC 3424 (4). STUDIES ABROAD: AMERICAN POLITICS AND GOVERNMENT. SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3444 (4). STUDIES ABROAD: COMPARATIVE POLITICS AND GOVERNMENT. SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3464 (4). STUDIES ABROAD: POLITICAL THEORY. SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3484 (4). STUDIES ABROAD: INTERNATIONAL RELATIONS. SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 3902 (9). COMPARATIVE PUBLIC POLICY.

PLSC 4102 (1). 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.

PLSC 4202 (2). 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.

PLSC 4301 (3). WASHINGTON TERM. Intensive study of national political institutions. Includes a 4 hour research project (PLSC 4401), a 4-hour internship (PLSC 4402), and an 8-hour seminar (PLSC 4403, 4404). Pre-requisites: 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.

PLSC 4302 (3). 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.

PLSC 4304 (3). 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.

PLSC 4306 (3). INTERNSHIP IN POLITICAL SCIENCE. Undergraduate students who arrange for part-time 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.

PLSC 4307 (3). 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.

PLSC 4320 (3). SPECIAL STUDIES IN AMERICAN GOVERNMENT AND POLITICS.

PLSC 4321 (3). 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.

PLSC 4322 (3). 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.

PLSC 4323 (3). THE POLITICS OF CHANGE IN AMERICA, 1930–2000. Focuses upon American politics and society from 1930 to the present. Examines the ways America has changed, explains why changes occur, and assesses the consequences of these changes.

PLSC 4324 (3). POLITICAL DYNAMICS. Covers the use of political parties in formulating political opinions. Also, pressure groups, propaganda, measurement of mass opinions, and political leadership.

PLSC 4325 (3). PRACTICAL ELECTORAL POLITICS. An exploration of techniques of political organization drawing on studies of recent campaigns and examining the political pressures that affect policymaking in government.

PLSC 4326 (3). PRESIDENTIAL ELECTIONS. Examines presidential nominations and elections. Topics include voter decision-making, media coverage, campaign finance, delegate selection rules, and the Electoral College.

PLSC 4327 (3). 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.

PLSC 4328 (3). SEMINAR: AMERICAN GOVERNMENT AND POLITICS. An overview of the central questions in the study of American government and politics.

PLSC 4329 (3). 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.

PLSC 4330 (3). POLITICS AND FILM. Uses films as a vehicle for understanding politics, leadership, and the political process in the U.S. Involves substantial reading and writing. *Prerequisite:* Political science or film studies major or minor, or permission of instructor.

PLSC 4331 (3). LAW AND FILM. American popular culture has demonstrated an enduring fascination with lawyers, the law, and the legal system. This course focuses on how the portrayal of attorneys and the legal system in films shapes public perception of lawyers, creates viewer expectations regarding law and justice, and perhaps influences the conduct of practicing attorneys and judges.

PLSC 4332 (3). 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.

PLSC 4333 (3). POLICY, POLITICS, AND THE BUDGET. Examines the federal budget's historical evolution and contemporary significance. Also, 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.

PLSC 4334 (3). THE POLITICS AND LEGACIES OF THE CIVIL RIGHTS MOVEMENT. Examines the politics and legacies of the movement that destroyed the system known as Jim Crow and removed barriers to political participation by African Americans.

PLSC 4335 (3). 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.

PLSC 4336 (3). 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.

PLSC 4337 (3). CIVIL RIGHTS. Examines changes wrought in the American system of governance by addition of the 14th Amendment, particularly its Equal Protection Clause, and the ways the Supreme Court has interpreted and applied it over time. Topics of attention include racial discrimination, sex discrimination, and equality in the political process.

PLSC 4338 (3). CRIMINAL PROCESS RIGHTS. Examines the application of the principles of ordered liberty and the Bill of Rights to criminal process disputes, including the initial police

investigation, trial preparation, trial and jury concerns, and the posttrial determination of punishment.

PLSC 4340 (3). SPECIAL STUDIES IN COMPARATIVE GOVERNMENTS AND POLITICS.

PLSC 4341 (3). COMPARATIVE RIGHTS AND REPRESENTATION. Examines the tension that exists between rights and democratic representation. Explores judicial activism in making social policy, individual versus collective rights, aboriginal rights, and affirmative action.

PLSC 4342 (3). WHY NATIONS REVOLT. Survey of the major theories that have been developed to explain the occurrence of revolutions. Examines various revolutions as case studies, including the French, Russian, Nazi, and Chinese revolutions, and at least one peasant revolution in the Third World.

PLSC 4343 (3). NATIONALITIES AND MINORITIES IN EUROPE. A study of minority issues in Europe. The Balkans, the Baltics, the Basques: what is the fighting for? In modern Europe, minority issues are constantly debated and acted upon, both by majorities and minorities. This course is part of the SMU-in-Copenhagen program.

PLSC 4344 (3). GENDER IN WORLD POLITICS. A survey of classic and contemporary scholarship on women and gender in world politics, focusing on theoretical and empirical explorations of political participation, representation, activism, democracy, war, and human rights.

PLSC 4348 (3). SEMINAR: COMPARATIVE GOVERNMENT AND POLITICS. An overview of the central questions in the study of comparative government and politics.

PLSC 4350 (3). GAME THEORY FOR POLITICAL SCIENCE. Politics is about conflict. When there is conflict, there will be strategy. This course examines the complicated strategic interactions within the framework of game theory.

PLSC 4353 (3). POLITICAL ECONOMY OF EAST ASIA. Analysis of the interplay between politics and economics in East Asia, examining in what ways and to what degree the growth experiences of the high-performing economies in East Asia shed light on the prospects for long-term success of reforms currently underway in China.

PLSC 4354 (3). THE THIRD WORLD AND NORTH-SOUTH RELATIONS. An inquiry into problems and theories of political economy of development and dependency in Third World countries.

PLSC 4355 (3). 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.

PLSC 4356 (3). LATIN AMERICAN POLITICAL ECONOMY. Focuses on the challenges facing public policy in the Latin American region and ways 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.

PLSC 4357 (3). SOUTH AMERICAN POLITICS.

PLSC 4358 (3). SOVIET POLITICS REVOLUTION TO REVOLUTION. A survey of Soviet political history from 1917 to 1991. Special attention is devoted to the way in which each Soviet leader attempted to change the political and economic system.

PLSC 4360 (3). SPECIAL STUDIES IN POLITICAL THEORY.

PLSC 4361 (3). 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: the Roman Empire, the effects of the Christian order, and the new modes and orders introduced by Machiavelli.

PLSC 4362 (3). MEDIEVAL POLITICAL PHILOSOPHY. Introduces the tradition of political philosophy represented by various thinkers of the medieval period. Also, the fundamental issues at stake in the works of Islamic, Jewish, and Christian authors, and the alternative solutions proposed for solving what has been termed the theological-political problem.

PLSC 4363 (3). RELIGION AND POLITICS IN THE WESTERN TRADITION. Analysis of the relationship between religious faith and civil government in the Western tradition, with a focus on thinkers and controversies from the late Roman Empire to the contemporary United States.

PLSC 4364 (3). POLITICAL THOUGHT.

PLSC 4365 (3). COMMUNISM.

PLSC 4368 (3). SEMINAR: POLITICAL THEORY AND PHILOSOPHY. An overview of the central questions in the study of political theory and philosophy.

PLSC 4369 (3). REPUBLICANISM AND THE GOOD SOCIETY. Examines the intellectual history of republicanism, its uneasy alliance with liberalism, and its various contemporary manifestations, particularly in the U.S. and Canada.

PLSC 4371 (3). JURISPRUDENCE. An introduction to alternative ways of viewing the sources, functions, and uses of law. Attention is given to various understandings of concepts of justice and rights.

PLSC 4375 (3). THE ETHICS OF REVOLUTION AND CIVIL DISOBEDIENCE. A survey of the ethical and philosophical issues surrounding resistance to state power and disobedience of civil law. Examines ancient, medieval, and modern perspectives on when such defiance is justifiable.

PLSC 4380 (3). SPECIAL STUDIES IN INTERNATIONAL RELATIONS.

PLSC 4381 (3). NATIONAL SECURITY POLICY. Examines the changing nature of foreign policy and national security policy issues in a world characterized by growing interdependence and globalization, with particular attention to how technology offers both new opportunities and new dangers. Includes analysis of counterterrorism and homeland security, cyberterrorism, global public health, energy security, nuclear proliferation, and global financial stability. Students learn how to analyze national security policy objectives by using real-world situations and how to determine optimal policy implementation by examining potential actors, potential hurdles to implementation, and sources of funding.

PLSC 4382 (3). THE POLITICS OF MILITARY FORCE. Examines use of U.S. military force as a political instrument and its effectiveness as a tool of American foreign policy since the end of the World War II.

PLSC 4384 (3). AMERICAN-RUSSIAN RELATIONSHIP. Surveys American-Russian relations since 1945, with emphasis on how and why the Cold War began. Also, the reasons for the end of the Cold War, the nature of American-Russian relations in the post-Cold War era, and common interests and issues that divide the two nations. Incorporates a negotiation simulation exercise between American and Russian negotiating teams.

PLSC 4385 (3). 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.

PLSC 4386 (3). INTERNATIONAL RELATIONS OF EAST ASIA. A survey of the history of diplomacy, war, and economic relations of the East Asian region while introducing the leading theories and debates about regional cooperation in the field of international relations.

PLSC 4388 (3). SEMINAR: INTERNATIONAL GOVERNMENT AND POLITICS. An overview of the central questions in the study of international government and politics.

PLSC 4391 (3). NAFTA AND FREE TRADE IN THE AMERICAS. Explores the domestic politics of Canada, Mexico, and the U.S. that led to the North American Free Trade Agreement. Also, the effects of the agreement and the possibilities for expanding free trade in the Americas.

PLSC 4392 (3). STRATEGY. An introduction to major debates about strategy, or the relationship between military violence and political objectives. Includes close examination of historical cases and current conflicts.

PLSC 4398 (3). 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.

PLSC 4401 (4). WASHINGTON TERM. Intensive study of national political institutions. Includes a 4-hour research project (PLSC 4401), a 4 hour internship (PLSC 4402), and an 8-hour seminar (PLSC 4403, 4404). Pre-requisites: 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.

PLSC 4402 (4). WASHINGTON TERM. Intensive study of national political institutions. Includes a 4-hour research project (PLSC 4401), a 4 hour internship (PLSC 4402), and an 8-hour seminar (PLSC 4403, 4404). Pre-requisites: 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.

PLSC 4403 (4). WASHINGTON TERM. Intensive study of national political institutions. Includes a 4-hour research project (PLSC 4401), a 4 hour internship (PLSC 4402), and an 8-hour seminar (PLSC 4403, 4404). Pre-requisites: 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.

PLSC 4404 (4). WASHINGTON TERM. Intensive study of national political institutions. Includes a 4-hour research project (PLSC 4401), a 4 hour internship (PLSC 4402), and an 8-hour seminar (PLSC 4403, 4404). Pre-requisites: 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.

PLSC 5341 (3). 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? (SMU-in-Copenhagen)

PLSC 5383 (3). SEMINAR ON REGIONAL CONFLICTS. A study of the problems of European security, with emphasis on the issues confronting populations and policymakers after the Cold War, on the search for a new European security order, and on the emergence of new threats to security. (SMU-in-Copenhagen)

PSYCHOLOGY

www.smu.edu/psychology

Professor George Holden, **Department Chair**

Professors: Alan Brown, George Holden, Ernest Jouriles, Akihito Kamata, Renee McDonald, Thomas Ritz. **Associate Professors:** Austin Baldwin, Robert Hampson, Alicia Meuret, David Rosenfield, Lorelei Simpson Rowe. **Assistant Professors:** Michael Chmielewski, Chrystyna Kouros, Priscilla Lui, Benjamin A. Tabak. **Senior Lecturers:** Michael Crow, Susan Hornstein, Chris Logan. **Lecturer:** James Calvert.

General Information

Psychology is the study of human behavior and cognition. A degree in psychology equips students with a variety of fundamental and transferable skills, including the ability to think scientifically, interpersonal and communication skills, and a sensitivity to diversity. A degree in psychology provides students with a solid academic foundation and prepares graduates to succeed in a variety of careers in psychology, law, medicine and business.

The research interests of faculty members fall into three broad areas: psychopathology, biological and health psychology, and family psychology. There are many opportunities for students to become involved in faculty research. A departmental distinction program provides highly motivated students with the opportunity to design and execute their own research project.

The Psychology Department offers one minor and two majors: a Bachelor of Arts and a Bachelor of Science. Students interested in the BS degree need to plan coursework very early to ensure completion within four years.

Bachelor of Arts in Psychology

A BA in Psychology requires 36 course credit hours (12 courses). Prior to declaring a BA, students must complete a foundation sequence of three courses including PSYC 1300, PSYC 2301 and STAT 2331 or 2301 with no individual grade less than a C-. Research training, practicum, and independent study courses are available (PSYC 3099, 3199, 3299, 3399, and 4395) on a pass/fail basis. These courses will not count toward the required hours for the major. Students must earn a C- or higher in all graded classes for the BA.

Requirements for the Major

Psychology Foundation: PSYC 1300, PSYC 2301 and STAT 2331 or 2301 (9 hours)

Psychology Breadth: Students choose one course from each of the five breadth areas in the department (15 hours):

- Developmental: 3332 or 4334
- Abnormal or Health: 2351 or 3360
- Social or Personality: 3341 or 3370
- Biological: 4320 or 4321
- Cognitive: 3310 or 4381 Special Topic: Cognitive Neuropsychology

Advanced PSYC Electives: Students must also complete 12 advanced hours of Psychology electives. (12 hours)

Bachelor of Science in Psychology

A BS in Psychology requires 45 or 46 course credit hours (15 courses). Prior to declaring a Bachelor of Science with a major in Psychology, students must complete the four-course foundation sequence of PSYC 1300, 2301, 4301 and STAT 2331. An approved alternate analysis course may be substituted for STAT 2331 with departmental permission. The foundation courses must be completed with a C or higher on the first attempt in order to declare the BS.

Research training, practicum, and independent study courses are available (PSYC 3099, 3199, 3299, 3399, and 4395) on a pass/fail basis. These courses will not count toward the required advanced elective hours for the major. To earn the BS, students must earn a C- or higher in all breadth and elective classes and have a major GPA of 2.5.

Requirements for the Major

Psychology Foundation: PSYC 1300, 2301, 4301 plus STAT 2331 or approved alternate analysis course (12 hours)

Psychology Breadth: Students choose one course from each of the five breadth areas in the department (15 hours)

- Developmental: 3332 or 4334
- Abnormal or Health: 2351 or 3360
- Social or Personality: 3341 or 3370
- Biological: 4320 or 4321
- Cognitive: 3310 or 4381 Special Topic: Cognitive Neuropsychology

Advanced PSYC Electives: Students must also complete 9 advanced hours of Psychology electives. (9 hours)

Scientific Perspective: Students must take a lab-based science course for science or engineering majors taken as part of the University Curriculum, or major elective. (3-4 hours)

Advanced Analysis: In addition to the Foundation statistics course, BS students need to complete an additional advanced elective in STAT (3312, 3385, or 5304). (3 hours)

Experiential Learning: BS students need to complete 3 hours of Research Training with a faculty mentor in the Psychology Department. Students may substitute Internship/Practicum with department approval. (3 hours)

Departmental Distinction

The department offers a distinction program to select majors with high academic achievement. The program consists of a sequence of classes where students, under the guidance of their faculty mentor, develop and conduct an independent research study. The program includes designing the study, collecting and analyzing the data, and then writing a paper for conference presentation and journal submission. To be eligible for the program, a student must have at least a 3.5 GPA overall and a 3.5 GPA in Psychology. Interested students should consult with the departmental adviser or director of undergraduate studies. Distinction may be added to either the BA or BS.

Minor in Psychology

A minor in Psychology consists of 18 credit hours (6 courses). PSYC 1300 must be successfully completed with a grade of *C-* or higher before declaring a psychology minor. Research training, practicum, and independent study courses are available (PSYC 3099, 3199, 3299, 3399, and 4395) on a pass/fail basis. These courses will not count toward the required hours for the minor. Students must earn a C- or higher in all classes for the minor.

Requirements for the Minor

Psychology Foundation: PSYC 1300 (3 hours)
Psychology Breadth: Students must take at least one course from three of the five breadth areas in the department (9 hours)
- Developmental: 3332 or 4334
- Abnormal or Health: 2351 or 3360
- Social or Personality: 3341 or 3370
- Biological: 4320 or 4321
- Cognitive: 3310 or 4381 Special Topic: Cognitive Neuropsychology

Advanced PSYC Electives: Students must also complete 6 advanced hours of Psychology electives. (6 hours)

The Courses (PSYC)

PSYC 1300 (3). INTRODUCTION TO PSYCHOLOGY. Broad introduction to psychology as a behavioral science with special emphasis on cognition, development, learning, social, personality, physiological, and clinical psychology (psychopathology and psychotherapy).

PSYC 2301 (3). 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. *Prerequisites:* PSYC 1300 and one additional psychology course, or instructor approval.

PSYC 2351 (3). 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 one additional psychology course, or instructor approval.

PSYC 3099 (0). RESEARCH TRAINING. Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. *Prerequisites:* PSYC 1300 and instructor approval.

PSYC 3192 (1). DISTINCTION SEMINAR IN PSYCHOLOGY: DATA COLLECTION AND ANALYSES. The second course in a three-course sequence for the psychology distinction program. During the term, students collect their data and begin analyses. In addition, continued attention is devoted to scientific writing. *Prerequisite:* Instructor approval.

PSYC 3199 (1). RESEARCH TRAINING. Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. *Prerequisites:* PSYC 1300 and instructor approval.

PSYC 3291 (2). DISTINCTION SEMINAR IN PSYCHOLOGY: RESEARCH PROJECT DEVELOPMENT. The first course in a three-course sequence for the psychology distinction program. Includes advanced training in research methodology. During the term, students design a rigorous research project. *Prerequisite:* Instructor approval.

PSYC 3299 (2). RESEARCH TRAINING. Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. *Prerequisites:* PSYC 1300 and instructor approval.

PSYC 3310 (3). 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 one additional psychology course, or instructor approval.

PSYC 3332 (3). 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.

PSYC 3335 (3). 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. Also, understanding competent family functioning, dealing with health and illness, and family counseling. *Prerequisites:* PSYC 1300 and one additional psychology course or instructor approval.

PSYC 3341 (3). SOCIAL PSYCHOLOGY. Addresses the question of how an individual's thoughts, feelings, and behaviors are influenced by his/her social environment; includes topics such as attitude change, conformity, attraction, aggression, and small-group behavior.

PSYC 3360 (3). 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 and/or physical factors. *Prerequisites:* PSYC 1300 and one additional psychology course, or instructor approval.

PSYC 3364 (3). 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 one additional psychology course, or instructor approval.

PSYC 3365 (3). 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 development. *Prerequisites:* PSYC 1300 and one additional psychology course or instructor approval.

PSYC 3370 (3). PERSONALITY. An examination of theories and research that address the underlying bases of personality and the causes of individual differences. Emphasis is on the normal personality, but the causes of abnormal personality development are also considered. *Prerequisites:* PSYC 1300 and one additional psychology course or instructor approval.

PSYC 3371 (3). PSYCHOLOGY OF WOMEN. This course focuses on understanding women as individuals. Also, personality theories 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 are examined. *Prerequisites:* PSYC 1300 and one additional psychology course or instructor approval.

PSYC 3375 (3). HUMAN RIGHTS FROM A PSYCHOLOGICAL PERSPECTIVE. Examines human rights as informed by psychological concepts and research. Insights from social, clinical, and developmental psychology are used to better understand human rights violations and issues. *Prerequisite:* Instructor approval.

PSYC 3384 (3). SPECIAL TOPICS ABROAD: PSYCHOLOGY. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. A maximum of 6 credit hours permissible toward the B.A. in psychology.

PSYC 3393 (3). DISTINCTION SEMINAR IN PSYCHOLOGY: DATA COLLECTION AND ANALYSES. The first course in a course sequence for the psychology distinction program. During the term, students collect their data and begin analyses. Continued attention is devoted to scientific writing. *Prerequisite:* Instructor approval.

PSYC 3399 (3). RESEARCH TRAINING. Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. *Prerequisites:* PSYC 1300 and instructor approval.

PSYC 3484 (4). SPECIAL TOPICS ABROAD: PSYCHOLOGY. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for

credit under different subtitle. A maximum of 6 credit hours permissible toward the B.A. in psychology.

PSYC 4172 (1). PRACTICUM. An intensive study of interpersonal helping relationships based upon psychological theories and research, with an emphasis on supervised personal involvement with others as a helper.

PSYC 4320 (3). 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 learn basic anatomy, physiology, and research methods. Applications to research and treatment are addressed. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4321 (3). BEHAVIORAL ACTION OF DRUGS. Addresses the principles of drugs and behavior, classification, and chemical effects of behaviorally active drugs; influences of environmental, response, and task variables; and the evaluation and treatment of addiction. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4325 (3). 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. Considers the role that cognitions, culture, language, and the nervous system play in determining emotions. Classes include group projects and demonstrations. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4334 (3). 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, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4339 (3). 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, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4341 (3). SOCIAL COGNITION. Surveys social perception and cognition, including person perception, nonverbal communication, emotional expression, accuracy, and stereotyping. Considers ecological, evolutionary, and cognitive theoretical approaches. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4342 (3). CLOSE RELATIONSHIPS. Covers research and theory in the psychology of close relationships, including different theoretical perspectives, with emphasis on attraction, relationship development and maintenance, communication, conflict resolution, and relationship dissolution. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4352 (3). INTRODUCTION TO CLINICAL PSYCHOLOGY. A survey of the important issues and subfields of clinical psychology from the viewpoint of the scientist-practitioner model. Covers research, assessment, diagnosis, and theories in the area of psychotherapy. Intended for students contemplating graduate school in clinical psychology or related fields. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4363 (3). PSYCHOLOGY OF CONFLICT RESOLUTION. Covers research and theory in the psychology of interpersonal conflict, as well as mechanisms for resolving, managing, or avoiding conflict. Emphasized domains are alternative dispute resolution, close relationships, and workplace and international conflict. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

PSYC 4376 (3). PSYCHOLOGY OF RELIGION. Introduces the major issues, theories, and empirical approaches to the psychology of religion. Topics covered include the role that religion plays in the beliefs, motivations, emotions, and behavior of individuals. *Prerequisites:* PSYC 1300 and one additional psychology course, or instructor approval.

PSYC 4377 (3). ENVIRONMENTAL PSYCHOLOGY. Incorporates research and theory from several fields within psychology to understand the relationship between individuals and their

built and natural environments. *Prerequisites:* PSYC 1300 and 2301, or instructor approval. *Prerequisite*s waived for SMU-in-Taos students.

PSYC 4380 (3). HISTORY OF PSYCHOLOGY. Covers the most important movements and individuals contributing to the development of modern psychology. *Prerequisites:* Instructor approval or PSYC 1300, PSYC 2301, and one additional psychology course.

PSYC 4381 (3). SPECIAL TOPICS. Covers topics that may have temporary or limited interest. Topics include child development, family violence, advanced family psychology, anxiety disorders, and positive psychology. *Prerequisites:* PSYC 1300 and 2301, or instructor approval.

PSYC 4393 (3). DISTINCTION SEMINAR IN PSYCHOLOGY: COMPLETION OF RESEARCH PROJECT. The third course in a three-course sequence for the psychology distinction program. Over the course of the term, students complete their research projects and prepare them for dissemination. *Prerequisite:* Instructor approval.

PSYC 4395 (3). PRACTICUM/INTERNSHIP. An intensive study of interpersonal helping relationships based upon psychological theories and research findings, with emphasis on supervised personal involvement with others. *Prerequisites:* PSYC 1300, 2301 and instructor approval.

PSYC 5381 (3). SPECIAL TOPICS. Designed to cover topics that may have temporary or limited interest. Topics include psychology and law, health psychology, and the psychology of attachment. *Prerequisites:* PSYC 1300, PSYC 2301, and one additional psychology course, or instructor approval.

RELIGIOUS STUDIES

Professor Carl Johan Elverskog, **Department Chair**

Professors: William Barnard, Mark Chancey, Carl Johan Elverskog, Serge Frolov. **Associate Professors:** Richard Cogley, Jill DeTemple, John Lamoreaux, Steven Lindquist. **Professor of Practice:** Shira Lander.

Bachelor of Arts With a Major in Religious Studies

The B.A. degree in religious studies is appropriate for a general liberal arts education and for preprofessional training leading to graduate degrees in religious studies, law, 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, social-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 Ph.D. work in religious studies are strongly encouraged to take the major with departmental distinction and to complete 12 term hours in either French or German.

A total of 30 term hours are required in the department, and 24 hours must be completed in courses numbered at the 3000 level or above.

Requirements for the Major	*Credit Hours*
One from RELI 3306, 3307, 3378	3
One from RELI 3319, 3326	3
One from the following if not taken for the above requirements: RELI 3306, 3307, 3352, 3365, 3368, 3375, 3377, 3378, 3382, 3384, 3386	3
Additional RELI courses at the 3000 level or above	15
Other departmental courses	6
	30

Departmental Distinction

A student majoring in religious studies with a minimum overall GPA of 3.000 and a 3.500 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 in Religious Studies

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 at the 3000 level or above.

RELI 1300 (3). SPECIAL TOPICS ABROAD: RELIGIOUS STUDIES. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under a different subtitle.

RELI 1301 (3). 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.

RELI 1303 (3). INTRODUCTION TO ASIAN RELIGIONS. An introductory historical overview of select religious traditions of Asia. The course explores developments in religious and cultural trends expressed in South Asia and East Asia in traditions such as Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, and/or Shintoism.

RELI 1304 (3). 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.

RELI 1305 (3). INTRODUCTION TO PRIMAL RELIGIONS. An introduction to the religious world views and ritual life of such primal cultures as Australian aboriginals, African tribal peoples, and native North and South Americans. Also, the significance of the resurgence of neopaganism in the West.

RELI 1308 (3). RELIGION IN THE UNITED STATES. Explores the role of religion in contemporary American culture, including mainstream civil religion, specific religious traditions, and the interactions among different groups.

RELI 1311 (3). 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.

RELI 2300 (3). SPECIAL TOPICS ABROAD: RELIGIOUS STUDIES. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle.

RELI 3300 (3). SPECIAL TOPICS ABROAD: RELIGIOUS STUDIES. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle.

RELI 3302 (3). 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.

RELI 3304 (3). 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.

RELI 3306 (3). HINDUISM. An exploration of the major attitudes and institutions that define Hinduism, with attention to ideology, social organization, and ritual in light of both historical development and contemporary practice.

RELI 3307 (3). 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.

RELI 3308 (3). 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.

RELI 3309 (3). BIOETHICS FROM A CHRISTIAN PERSPECTIVE. Examines 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.

RELI 3310 (3). 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.

RELI 3314 (3). STUDIES: 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.

RELI 3315 (3). 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. Introduces the social-scientific study of religion to aid in the analysis of current and recent case studies, ranging from far-right conservatism to the revolution of the political left, and involving Christian, Jewish, Muslim, Hindu, and Buddhist traditions.

RELI 3316 (3). 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.

RELI 3318 (3). 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.

RELI 3319 (3). HEBREW BIBLE. An introduction to the Old Testament and to the religion and history of ancient Israel. Special emphasis is given to the ancient Near Eastern roots of biblical religion and to the modern interpretation of biblical myth, epic, and prophecy.

RELI 3320 (3). CLASSICAL JUDAISM. An introduction to the study of religion through examination of Judaism. The course looks at central Jewish religious ideas and their development within the rabbinic and medieval periods. Special attention is given to conflicts and controversies, such as Judaism's rejection of early Christianity, heretical movements within medieval Judaism, and Jewish attitudes toward other religions.

RELI 3321 (3). RELIGION AND THE HOLOCAUST. A study of responses to the Holocaust by Jews and Christians. Includes an overview of the history of the Holocaust as it affected the Jewish communities of Central and Eastern Europe. Students read personal memoirs of survivors of ghettos, concentration camps, and Nazi Germany. Postwar responses 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 postwar relations between Jews and Germans.

RELI 3324 (3). AMERICAN JUDAISM. An examination of Jewish life in America, including history, literature, cultural expressions, and religious beliefs from the 17th century to the present.

RELI 3326 (3). NEW TESTAMENT. An introduction to the writings of the New Testament, the formative events, and the people who played leading roles in the origin of Christianity.

RELI 3329 (3). ISLAM. An examination of the history, doctrines, and rituals of the Muslim community, including Islam in the past and present and in its global context.

RELI 3330 (3). HISTORY OF CHRISTIANITY. An introduction to the European development of Christianity, focusing on the key movements, the outstanding leaders, and crucial turning points in the history of Christianity.

RELI 3331 (3). RENEWAL: ROMAN CATHOLICISM. Concentrates on the more significant documents of the Second Vatican Council (1962–1965). Includes the background prior to the Second Vatican Council, the changes that helped bring it about, and developments in Roman Catholicism during the last 30 years.

RELI 3333 (3). 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.

RELI 3334 (3). CONSERVATISM AND LIBERALISM IN 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.

RELI 3335 (3). RELIGIOUS SECTS IN AMERICA. An examination of new religious movements that originated in America, e.g., Mormonism; Seventh-Day Adventism; Scientology; the Church of Christ, Scientist (Christian Science); and the Nation of Islam, as well as religious movements in the U.S. that originated abroad, e.g., Hasidic Judaism, Theosophy, the Unification Church, the Hare Krishna movement, and Baha'i.

RELI 3336 (3). AFRICAN-AMERICAN RELIGIOUS HISTORY. Examines the major movements, figures, and critical issues in African-American religious history, with a focus on the U.S., 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.

RELI 3337 (3). CHRISTIANITY AND AMERICAN PUBLIC LIFE. Explores the individualism permeating American understanding and life, and the communitarian dimensions of human existence from the Christian perspective. Helps students enter more critically into the dialogue about the role of religion in pluralistic, contemporary American society.

RELI 3338 (3). CHRIST AS 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.

RELI 3339 (3). 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.

RELI 3340 (3). 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.

RELI 3341 (3). RELIGION IN THE UNITED STATES SINCE 1865. Explores American religion and the role of religion in politics, science and knowledge, community, gender and family, and culture.

RELI 3342 (3). RELIGION IN THE UNITED STATES TO 1865. Investigates the foundations of American religious culture, including native, African, and European traditions; colonization; early evangelicalism; the Revolutionary War; and the religious culture of the new United States.

RELI 3343 (3). RELIGION AND THE AMERICAN REVOLUTION. Investigates the history of religion and the American Revolution, including their Colonial background, evangelicalism and Enlightenment, and the influence of religion on founding documents and leaders.

RELI 3348 (3). TEMPLES, CHURCHES, AND SYNAGOGUES IN THE ANCIENT MEDITERRANEAN. Explores the forms, politics, and social functions of sacred spaces in the ancient Mediterranean using contemporary theories of spatiality. Students learn how to analyze archaeological and literary remains.

RELI 3349 (3). EARLY CHRISTIANITY. Major developments in the history of Christianity from 100 to 600. Emphasis is placed on institutional and ideological developments.

RELI 3350 (3). 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 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 are key concerns of the course.

RELI 3352 (3). LOVE AND DEATH. 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.

RELI 3353 (3). IDENTITY AND THE SACRED IN THE SOUTHWEST. An introduction to the Latino/a religions and religious practices in the United States, with a special emphasis on social constructions of the borderland.

RELI 3358 (3). PSYCHOLOGY OF RELIGION. An investigation of the biological and psychological underpinning of religious belief, behavior, and experience, as well as the psychological and biological consequences of religion.

RELI 3359 (3). NORDIC MYTHOLOGY. An examination of the beliefs, practices, and values of the Teutonic peoples prior to the Christianization of Northern Europe.

RELI 3360 (3). THE HISTORY OF JUDAISM. An overview of both the historical development of the Jewish tradition and its central laws, religious practices, and theology.

RELI 3362 (3). 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 these encounters today.

RELI 3364 (3). NATIVE AMERICAN RELIGIONS. An investigation of the mythologies of North America, centering on southwestern and northern Plains cultures. Native texts are 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.

RELI 3365 (3). UNDERSTANDING 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.

RELI 3366 (3). 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.

RELI 3367 (3). THE RELIGIOUS LIFE OF CHINA AND JAPAN. An introduction to the history, thought, and religious practices of Taoism, Confucianism, Shinto, and Mahayana Buddhism.

RELI 3368 (3). 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.

RELI 3370 (3). 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.

RELI 3371 (3). 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.

RELI 3372 (3). 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.

RELI 3374 (3). FEMALE AND MALE IN RELIGION AND CULTURE. Students explore how the study of gender differences affects their understanding of history, religion, and culture. Includes a critical look at current discussions in the field of women's studies and their impact on contemporary thought.

RELI 3375 (3). THE FEMININE DIVINE. 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.

RELI 3377 (3). THE CULTURAL HISTORY OF TIBET. A critical study of Tibetan history, culture, and religion, and how they relate to the representation of Tibet in travel, scholarly, and popular literature.

RELI 3378 (3). RELIGIONS OF CHINA. A historical survey of the religious cultures of China from the ancient Shang dynasty through the contemporary period.

RELI 3380 (3). 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.

RELI 3381 (3). RELIGION, GENDER, AND ECONOMIC DEVELOPMENT. A consideration of gender and religion in the context of international economic development with a particular emphasis on “tradition” as a category of analysis and evaluation.

RELI 3382 (3). MYSTICISM. 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.

RELI 3383 (3). REEL JUDAISM: CINEMATIC REPRESENTATIONS OF JEWISH LIFE. Explores how American, European, and Israeli films variously represent Jewish life past and present. Addresses issues of identity-construction, cultural context, collective memory, politicization, majority representation, and minority self-representation.

RELI 3384 (3). HINDUISM AND COLONIAL ENCOUNTERS. A critical study of the history of colonialism in India and its impact on social, religious, and political discourse.

RELI 3386 (3). MYTHS, EPICS, AND TALES FROM INDIA. Examines religious narratives from ancient India. Students read and analyze many examples across different genres (myth, epic, folktale) in text and performance, focusing on literary and historical context and interpretation.

RELI 3387 (3). RELIGION AND HUMAN RIGHTS. Major world religious traditions and modern ideas of human rights. Religious understandings of humanity and political order are considered in relation to contemporary human rights issues.

RELI 3388 (3). WESTERN IDEAS OF ENLIGHTENMENT: PLATO, AUGUSTINE, AND KANT. Explores how Plato, Augustine, and Kant defined enlightenment and how their competing ideas shape contemporary understandings of the educated, virtuous, and free person.

RELI 3389 (3). LIVING FROM THE HEART (OF IT ALL): AN EXPLORATION OF MYSTICAL/SPIRITUAL ETHICS. Explores the intersection between ethics and mysticism/spirituality, and compares the ethical ideals and metaphysical assumptions of various mystical traditions, as well as the prosaic ethical implications of mysticism and spirituality.

RELI 3390 (3). A PERSISTENT PREJUDICE: ANTI-SEMITISM IN WESTERN CIVILIZATION. Studies the evolution of anti-Jewish stereotypes in Western culture in the context of human rights as well as classical anti-Judaism's transformation into the modern phenomena of anti-Semitism and anti-Zionism.

RELI 3391 (3). WAKING UP: THE PHILOSOPHY OF YOGA AND THE PRACTICE OF MEDITATION. Explores the Hindu traditions of yoga and tantra, investigating key understandings of meditation, selfhood, and consciousness, with an equal emphasis on theory, experience, and practice.

RELI 4198 (1). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4199 (1). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4298 (2). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4299 (2). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4300 (3). SPECIAL TOPICS ABROAD: RELIGIOUS STUDIES. Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle.

RELI 4352 (3). 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.

RELI 4354 (3). 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.

RELI 4356 (3). THE BIBLE AND ETHICS. An examination of the ways in which Christians have appealed to the Bible in ethical debates, with special attention to classic ethical approaches, specific ethical issues, and methodological problems.

RELI 4371 (3). 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.

RELI 4381 (3). INTERNSHIP IN RELIGIOUS STUDIES. This course 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.

RELI 4388 (3). SPECIAL TOPICS IN RELIGIOUS STUDIES. A detailed investigation of a topic chosen by the instructor. Topics vary.

RELI 4389 (3). SPECIAL TOPICS IN RELIGIOUS STUDIES. A detailed investigation of a topic chosen by the instructor. Topics vary.

RELI 4396 (3). DIRECTED READING AND RESEARCH. Special topics to be selected by the student in consultation with the department. Open to seniors upon departmental approval.

RELI 4397 (3). DIRECTED READING AND RESEARCH. Special topics to be selected by the student in consultation with the department. Open to seniors upon departmental approval.

RELI 4398 (3). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4399 (3). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4498 (4). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4499 (4). INDEPENDENT STUDY. Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 5330 (3). INTRODUCTION TO DIGITAL HUMANITIES. Provides a theoretical and practical introduction to the digital humanities, covering digital texts, GIS tools, visualizations, online archiving and presentation, and the culture of this developing field.

SOCIOLOGY

www.smu.edu/sociology

Associate Professor Sheri Kunovich, **Department Chair**

Associate Professors: Matthew R. Keller, Sheri Kunovich, Anne E. Lincoln. **Assistant Professor:** Lucas Kirkpatrick. **Senior Lecturer:** Debra Branch. **Lecturers:** Nancy Campbell-Jeffrey, Leslie DeArman.

General Information

The sociology curriculum includes courses on research design, data analysis and social theory, as well courses on developing an understanding of domestic and international social conditions. In today's information society, these skills give sociology majors a competitive advantage in fields that rely heavily upon social research.

Sociology majors entering the business world often work in marketing research, human resources, personnel management, industrial relations, public relations or sales, while sociology majors entering human services often work in nonprofits focused on addressing social problems and helping individuals solve problems related to economic insecurity, substance abuse or housing insecurity. In the government sector, sociology majors often work in policy analysis, program evaluation or urban planning. A sociology degree also provides a strong foundation for careers in law, politics, health care and education.

The Department of Sociology offers three majors and one minor. Students are not permitted to pursue both a B.A. and B.S. in sociology but may pursue the combination of a markets and culture major and either the B.A. or B.S. in sociology. Students who combine a markets and culture major with the B.A. or B.S. in sociology may double count up to 15 hours of course credit between these programs. SOCI 3311, 3312 will automatically be included, as well as three additional courses as determined by the order in which the course work is completed.

Bachelor of Arts With a Major in Sociology

Prior to declaring a sociology major, students must complete SOCI 1300 with a grade of *C* or better. Students must receive at least a *C-* in all remaining required courses and meet a minimum GPA of 2.000 in all courses counted toward the major. STAT 2301 or 2331 is recommended but is not applied toward the B.A. Only one independent study course (SOCI 4393 or 4396) may be taken for a grade and applied toward the major. General internship courses (SOCI 4198, 4298, 4398) may only be taken on a pass/fail basis, and will not be counted toward the major.

Requirements for the Major	*Credit Hours*
Core Courses	12
SOCI 1300, 3311, 3312, and 4313 *or* 4314	
Electives	21
Four additional courses at the 2000 or 3000 level Three additional courses at the 4000 level	
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Bachelor of Science With a Major in Sociology

The B.S. degree provides a more rigorous curriculum in social science research and analytic writing, and a solid foundation for graduate study or professional school. Prior to declaring a sociology major, students must complete SOCI 1300 with a grade of *C* or better. Students must receive at least a *C-* in all remaining required courses and meet a minimum GPA of 2.000 in all courses counted toward the major. Only one independent study course (SOCI 4393 or 4396) may be taken for a grade and applied toward the major. General internship courses (SOCI 4198, 4298, 4398) may only be taken on a pass/fail basis, and will not be counted toward the major.

Requirements for the Major	*Credit Hours*
Core Courses	18
SOCI 1300, 3311, 3312, 4313, 4314 STAT 2301 *or* 2331	
Electives	18
Three additional courses at the 2000 or 3000 level Three additional courses at the 4000 level	
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Bachelor of Arts With a Major in Markets and Culture

The B.A. in markets and culture provides students the opportunity to learn about the world's marketplaces from an interdisciplinary vantage in the social sciences. Students receive a firm grounding in the economic principles of markets, the values and history of commerce, the social bases of economic behavior, and business concepts and practices while gaining an understanding of the multiple institutions and cultures that shape the world's markets.

Prior to declaring a major in markets and culture, students must achieve a grade of *C* or better in SOCI 2377. Students must receive at least a *C-* in all remaining required courses and meet a minimum GPA of 2.000 in all courses counted toward the major. Students are encouraged to choose their electives using one of the three areas of specialization presented below. Students who earn a second major in Spanish, German, French, or World Languages will automatically satisfy the elective requirements for the MKCL major. Students who earn a minor in languages where there is no option for a major at SMU will automatically satisfy the elective requirements for the MKCL major. General internship courses (SOCI 4179, 4279, 4379) may only be taken on a pass/fail basis and they will not be counted toward the major.

Students are also permitted to petition to include specific courses that broaden their knowledge of global society or of a particular region or country from disciplines such as history, English and world languages. Relevant study abroad courses may also be petitioned for approval. Students interested in the management, business strategy and organizations elective concentration are encouraged to consider completing the Cox minor in business.

Core Courses	30
ACCT 2301 Fundamentals of Accounting I *or* **ACCT 2310** Accounting Concepts *One from the following:* **ECO 3355** Money and Banking **FINA 3330** Money and Capital Markets (Cox majors only) **FINA 3310** Finance Concepts **ENGL 2302** Business Writing *or* **BLI 3302** Business Communications/Leader Development (Cox majors only) **SOCI 2377** Introduction to Markets and Culture **SOCI 3311** Social Science Research Methods **SOCI 3312** Database Methods and Analysis **SOCI 3340** Global Society *One from the following:* **SOCI 3376** Sociology of Work **SOCI 3377** Organizations and Their Environment *One from the following:* **SOCI 4377** Economic Sociology **SOCI 4384** Sociology of Innovation: Knowledge, Technology, and Institutions **SOCI 4376** Social Organization of Professional Work *One from the following:* **STAT 2301** Statistics for Modern Business Decisions **STAT 2331** Introduction to Statistical Methods **ITOM 2305** Managerial Statistics (Cox pre-majors and majors only) **ITOM 3310** Business Processes and Decisions (Cox majors only)	
Electives (from one or more of the following groups)	12
Management, Business Strategy, and Organizations	
PHIL 1317 Business Ethics **PLSC 3320** Principles of Public Policy **PLSC 3382** Internat'l Organizations: Global and Regional **PLSC 3390** Negotiating International Trade **PLSC 4329** The Politics of Economic Policy **PSYC 3365** Organizational Psychology **SOCI 3321** Nonprofit Organizations: Conceptual Primer **STRA 5370** Strategic Management in a Global Economy	
Political Economy, Inequality, and Development	
ANTH 3385 Sustainable Living **ANTH 4303** Political Economy of Health **ANTH 4384** Global Issues and Development: An Overview **ECO 4357** International Trade **ECO 4358** International Macroeconomic Theory and Policy **ECO 4365** State and Local Government **ECO 4366** Economics of the Public Sector	

Electives (continued)

ECO 5360 Economic Development
PLSC 3389 International Political Economy
PLSC 4353 Political Economy of East Asia
PLSC 4355 Comparative Political Economy of Industrialized Democracies
PLSC 4356 Latin American Political Economy
SOCI 3335 Political Sociology
SOCI 3340 Global Society
SOCI 3368 Global Urbanism: Implosions and Explosions
SOCI 3369 U.S. Urbanism: Inclusions/Exclusions
SOCI 3372 Contemporary Issues in the American Southwest
SOCI 4373 Class, Race, and Gender Inequalities
SOCI 4385 Environmental Sociology

Consumers and Markets in Historical and Cultural Contexts

ADV 1341 Marketing Principles of Advertising
ADV 2301 Consumer Behavior (Advertising majors and minors only)
ANTH 3310 Gender and Sex Roles: A Global Perspective
ANTH 3314 Peoples of Africa
ANTH 3336 Gender/Globalization: Cultural/Ethical Issues
ANTH 3350 Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
ANTH 3354 Latin America: People, Places, and Power
ANTH 3361 Language in Culture and Society
COMM 3342 Race/Identity Construction in Global Contexts
HIST 3327 Women in American History, 1900–Present
HIST 3364 Consumer Culture in the U.S., 1770–1990
PLSC 4354 The Third World and North–South Relations
PLSC 4391 NAFTA and Free Trade in the Americas
RELI 3381 Religion, Gender, and Economic Development
SOCI 3345 Construction of Social Identities in the Media
SOCI 3376 Sociology of Work
SOCI 3377 Organizations and Their Environment
SOCI 4340 Sociology of Culture
SOCI 4372 Wealth and Consumption

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Departmental Distinction

The department offers graduation with distinction to majors of high academic achievement. Interested students with a minimum 3.000 overall GPA and a 3.500 GPA in the major may consult with the director of undergraduate study for admission to the distinction track. If the director determines that the student has satisfied the requirements, the student may then contact a departmental faculty member to request direction of the 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 comprised of at least two faculty members. Upon positive recommendation from this committee, the student will be

awarded graduation with distinction. Criteria for graduating with departmental distinction include the following:

- A minimum 3.000 overall GPA at graduation.
- A minimum 3.500 GPA in required courses for the major.
- A minimum grade of *A-* in SOCI 4396.

Minor in Sociology

Markets and culture majors who want to minor in sociology will be allowed to double count up to six hours, specifically SOCI 3311 and 3312.

Requirements for the Minor	*Credit Hours*
SOCI 1300 and one from SOCI 3311, 3312, 4313, *or* 4314	6
Two out of three additional courses at the 3000 level or above	9
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The Courses (SOCI)

SOCI 1300 (3). INTRODUCTION TO SOCIOLOGY. This course presents the sociological approach to understanding human behavior. Sociology considers how particular life experiences, attitudes, and values are shaped by membership in ascribed and achieved social categories such as social class, race/ethnicity, sex, sexuality, and nationality.

SOCI 2180 (1). SMU ABROAD: SOCIOLOGY. 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. or B.S. in sociology or the B.A. in markets and culture.

SOCI 2280 (2). SMU ABROAD: SOCIOLOGY. 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. or B.S. in sociology or the B.A. in markets and culture.

SOCI 2300 (3). SOCIAL PROBLEMS. Examines social problems within the contexts of their particular societies and cultures; how a social problem is defined; and how solutions are shaped by politics, corporations, media interests, and social movements.

SOCI 2310 (3). NONPROFITS AT WORK IN THE COMMUNITY. Explores the nonprofit sector's role in addressing myriad social problems, especially those most prevalent in the Dallas area. Students examine issues such as poverty, domestic violence, health care, and the aging population. Traditional lectures on campus introduce concepts relating to the social issue being explored and the specific ways in which the nonprofit sector is working to mitigate the problems. Includes fieldtrips to local nonprofit agencies to tour facilities and meet with administrators, volunteers, and clients who are working to address the social problems discussed in class.

SOCI 2377 (3). INTRODUCTION TO MARKETS AND CULTURE. General introduction to economic sociology, examining the effects of culture and social relations on shaping production, distribution, and consumption in domestic and global markets. *Prerequisite:* First-year, sophomore, or junior standing only. Must have access to Microsoft Excel.

SOCI 2380 (3). SMU ABROAD: SOCIOLOGY. 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. or B.S. in sociology or the B.A. in markets and culture.

SOCI 3180 (1). SMU ABROAD: SOCIOLOGY. 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. or B.S. in sociology or the B.A. in markets and culture.

SOCI 3280 (2). SMU ABROAD: SOCIOLOGY. 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. or B.S. in sociology or the B.A. in markets and culture.

SOCI 3301 (3). 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.

SOCI 3305 (3). INTRODUCTION TO RACE AND ETHNICITY IN THE UNITED STATES. An interdisciplinary seminar designed to introduce the analysis of race and ethnicity in the United States. Topics include inequality, residential segregation, immigration, and ethics.

SOCI 3311 (3). SOCIAL SCIENCE RESEARCH METHODS. Introduces qualitative and quantitative research methods used by sociologists. Students learn how to design, conduct, and report research in an ethical, clear, and concise manner. Assignments provide hands-on experience using and collecting data for social science research. This is the first course in the research methods sequences. *Prerequisite:* SOCI 1300, 2377, or 3321.

SOCI 3312 (3). DATABASE METHODS AND ANALYSIS. Focuses on data analysis of existing data commonly used for economic and social scientific purposes (e.g., U.S. Census, General Social Survey, World Bank) and the construction of new data from multiple sources. Reviews basic quantitative research methodology, descriptive and inferential statistics, data reduction and management techniques, and the interpretation of statistics in applied social research. Students become adept at using multiple database programs (e.g., Excel, SPSS, SAS). This is the second course in the research methods sequence. *Prerequisite:* C- or better in SOCI 3311.

SOCI 3320 (3). 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.

SOCI 3321 (3). NONPROFIT ORGANIZATIONS: CONCEPTUAL PRIMER. Explores the nonprofit sector and relevant topics such as nonprofit history, theories, management, and trends, with a focus on strategies for improving organizations in light of the nonprofit sector's relationship with government and business. Prepares students for their subsequent nonprofit internship.

SOCI 3330 (3). SOCIAL CONSTRUCTION OF IDENTITIES. Examines classical and contemporary theoretical explanations for the development, persistence, and destruction of constructed social identities based on gender, sexuality, race and ethnicity, social class, disability status, etc.

SOCI 3335 (3). POLITICAL SOCIOLOGY. Covers political movements, the impact of politics on other institutions in America, issues of power and control, and global issues of economics and political power.

SOCI 3340 (3). GLOBAL SOCIETY. Provides students with a sociological orientation to the evolving interconnectedness among societies, nation-states, cultures, economies, and individuals around the globe.

SOCI 3345 (3). CONSTRUCTION OF SOCIAL IDENTITIES IN THE MEDIA. Provides a broad historical and contemporary background to the study of media representations of groups in society. Particular attention is paid to how gender, race, sexuality, and social class are constructed in visual and print media.

SOCI 3350 (3). ETHNOVIOLENCE: INTERDISCIPLINARY PERSPECTIVES. An introduction to ethnoviolence (violence or the threat of violence based on one's race, ethnicity, religion, gender, or sexual orientation) from a comparative, global, and critical framework that synthesizes sociology, colonial studies, and communications, as well as ethnic, religious, historical, and gender studies.

SOCI 3351 (3). SOCIOLOGY OF THE FAMILY. Examines the relationship between social structure and the family by considering the historical development of the family, variations in families, and current issues and changes affecting the family.

SOCI 3360 (3). LAW AND SOCIETY. A broad overview of the history and functions of American major legal institutions and their relationship to American culture and social structure.

SOCI 3363 (3). CRIME AND DELINQUENCY. Explores U.S. crime problems from a sociological perspective, including impacts of inequality, crime patterns, theories of criminal behavior, and prevention of crime.

SOCI 3368 (3). GLOBAL URBANISM: IMPLOSIONS/EXPLOSIONS. An introduction to urban life and culture around the world, including how to study cities, who inhabits cities, and the special features of city places and spaces.

SOCI 3369 (3). U.S. URBANISM: INCLUSIONS/EXCLUSIONS. Introduction to historical and contemporary U.S. cities from the perspective of "the urban" (space of cities), "urbanism" (city as a way of life), and "urbanization" (city as a societal process).

SOCI 3370 (3). MINORITY-DOMINANT RELATIONS. The nature, origins, and consequences of relationships between unequal groups; U.S. and other societies are compared.

SOCI 3371 (3). SOCIOLOGY OF GENDER. This course examines the social and cultural construction of gender within relationships, friendships, families, schools, the media, and the workplace. It also explores the intersection of gender with race, ethnicity, social class, and sexuality.

SOCI 3372 (3). CONTEMPORARY ISSUES IN THE AMERICAN SOUTHWEST. Focuses on contemporary issues facing the American Southwest, including social problems that exist within the contexts of particular groups, communities, cultures, and societies. Explores sociological issues relating to the environment, the media, poverty, immigration, food insecurity, education, crime, economic development, and health, among others.

SOCI 3376 (3). SOCIOLOGY OF WORK. A survey of macro- and micro-level perspectives on the American occupational structure and the social forces shaping workplaces, workers, and the world of paid employment in the United States.

SOCI 3377 (3). ORGANIZATIONS AND THEIR ENVIRONMENTS. Explores theories of organizations and relationships between organizations and their environments, and applies these theories to the analysis of real-world organization activities. C or better in SOCI 2377 recommended.

SOCI 3380 (3). SMU ABROAD: SOCIOLOGY. 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.S. in sociology

SOCI 4093 (0). UNDERGRADUATE FULL-TIME STATUS. Noncredit-bearing course with no tuition.

SOCI 4179 (1). MARKETS AND CULTURE INTERNSHIP. Students arrange for part-time jobs in fields of interest to markets and culture and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. *Prerequisites:* Sociology or markets and culture major, and sophomore standing or above.

SOCI 4193 (1). INDIVIDUAL RESEARCH. Students develop an independent research project under the guidance of a department faculty sponsor, culminating in a written report. *Prerequisites:* C- or better in SOCI 3311, 3312; sociology or markets and culture major; and instructor consent.

SOCI 4198 (1). SOCIOLOGICAL INTERNSHIP. Students arrange for part-time jobs in fields of interest to sociology and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. *Prerequisites:* Sociology or markets and culture major, and sophomore standing or above.

SOCI 4279 (2). MARKETS AND CULTURE INTERNSHIP. Students arrange for part-time jobs in fields of interest to markets and culture and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. *Prerequisites:* Sociology or markets and culture major, and sophomore standing or above.

SOCI 4293 (2). INDIVIDUAL RESEARCH. Students develop an independent research project under the guidance of a department faculty sponsor, culminating in a written report. *Prerequisites:* C- or better in SOCI 3311, 3312; sociology or markets and culture major; and instructor consent.

SOCI 4298 (2). SOCIOLOGICAL INTERNSHIP. Students arrange for part-time jobs in fields of interest to sociology and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. *Prerequisites:* Sociology or markets and culture major, and sophomore standing or above.

SOCI 4313 (3). THE SOCIOLOGICAL TRADITION. Introduction to theories of 19th- and early 20th-century sociologists. *Prerequisites:* Sociology major or sociology minor, and sophomore standing or above.

SOCI 4314 (3). CONTEMPORARY SOCIOLOGICAL THEORY. Surveys recent trends in sociological theory. *Prerequisites:* Sociology major or sociology minor, and sophomore standing or above.

SOCI 4321 (3). IMMIGRATION AND POPULATION ISSUES. Causes and consequences of population growth and change in the United States and the world. *Prerequisites:* SOCI 1300 or 2300, SOCI 3311 or 3312, and sophomore standing or above.

SOCI 4335 (3). SOCIAL MOVEMENTS AND COLLECTIVE BEHAVIOR. The nature, causes, and consequences of social movements and collective behavior (e.g., crowds, riots, fads, public opinion, social movements, and revolution). *Prerequisite:* SOCI 1300 or instructor approval.

SOCI 4340 (3). SOCIOLOGY OF CULTURE. Provides an overview of the sociological study of culture, focusing on the ways language, artifacts, ideas, identities, and narratives construct social reality. *Prerequisite:* Markets and culture major, sociology major, or sociology minor.

SOCI 4351 (3). NONPROFIT FUNDRAISING AND GRANT WRITING. Examines sources of revenue for nonprofit organizations. Specific topics include fundraising, grant writing, the history of philanthropic giving in America, and donor dynamics. *Prerequisite:* SOCI 3321 or instructor approval.

SOCI 4363 (3). THE ADMINISTRATION OF JUSTICE. Examination of law enforcement and criminal court systems, as well as the ideal of justice and public policy. *Prerequisites:* SOCI 1300 and sophomore standing or above.

SOCI 4364 (3). CORRECTIONAL SYSTEMS. The history of punishment, adjustment to incarceration, comparison of prisons for men and women, and constitutional issues of criminal punishment. *Prerequisites:* SOCI 1300 and sophomore standing and above.

SOCI 4366 (3). DEVIANT BEHAVIOR. Explores causes and consequences of deviant behavior and evaluates leading theories.

SOCI 4372 (3). WEALTH AND CONSUMPTION. 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 to sociological theories of consumption. *Prerequisites:* SOCI 3311 or 3312 and markets and culture major, sociology major, or sociology minor.

SOCI 4373 (3). CLASS, RACE, AND GENDER INEQUALITIES. Explores the causes and consequences of the unequal distribution of power, prestige, and opportunity within society. *Prerequisites:* SOCI 3311 or 3312 and markets and culture major, sociology major, or sociology minor.

SOCI 4374 (3). SOCIAL CHANGE. Review of major social change theories emphasizing technology, modernization, and social power. Also, the impact of change on individuals and institutions, and possible solutions to resulting problems. *Prerequisites:* SOCI 1300 and sophomore standing or above.

SOCI 4376 (0). SOCIAL ORGANIZATION OF PROFESSIONAL WORK. Uses case studies to explore professions and professional work in the U.S., including medicine, law, and science. Emphasizes closure processes, recruitment, licensure, and threats to professional jurisdiction. Sociology or markets and culture majors only.

SOCI 4377 (3). ECONOMIC SOCIOLOGY. Students develop critical understanding of the social, economic, technological, and political forces shaping current global markets. Recommended: SOCI 3377 or equivalent. *Prerequisite:* SOCI 3311.

SOCI 4379 (3). MARKETS AND CULTURE INTERNSHIP. Students arrange for part-time jobs in fields of interest to markets and culture and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. *Prerequisites:* Sociology or markets and culture major, and sophomore standing or above.

SOCI 4384 (3). SOCIOLOGY OF INNOVATION: KNOWLEDGE, TECHNOLOGY, AND INSTITUTIONS. Examines the social, organizational, and institutional bases of the development and diffusion of innovations, with a focus on the dynamics and debates concerning the generation of new knowledge and novel technologies. Recommended: SOCI 3377 or equivalent. *Prerequisite:* SOCI 3311.

SOCI 4385 (3). ENVIRONMENTAL SOCIOLOGY. Capstone course that examines the relationships among society, culture, economy, and the environment. *Prerequisite:* SOCI 3311 or instructor approval.

SOCI 4390 (3). ADVANCED RESEARCH METHODS. Supervised research experience collecting primary data in the field and/or secondary data and data analysis in the classroom. Students gain advanced understanding of specific methods, sampling and recruitment, data collection, and analysis. *Prerequisite:* SOCI 3311 or 3312.

SOCI 4393 (3). INDIVIDUAL RESEARCH. Students develop an independent research project under the guidance of a department faculty sponsor, culminating in a written report. *Prerequisites:* C- or better in SOCI 3311, 3312; sociology or markets and culture major; and instructor consent.

SOCI 4396 (3). INDIVIDUAL RESEARCH FOR DISTINCTION. Students develop a substantial piece of independent and original research for graduation with distinction. *Prerequisites:* Minimum overall GPA of 3.000, minimum major GPA of 3.500, SOCI 3311 and 3312, sociology or markets and culture major, and junior standing or above.

SOCI 4398 (3). SOCIOLOGICAL INTERNSHIP. Students arrange for part-time jobs in fields of interest to sociology and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. *Prerequisites:* Sociology or markets and culture major, and sophomore standing or above.

SOCI 4399 (3). SPECIAL TOPICS: SOCIOLOGY SEMINAR. Seminar on selected sociological areas. May be repeated for credit if topics differ.

STATISTICAL SCIENCE

www.smu.edu/statistics

Professor Lynne Stokes, **Department Chair**

Professors: Ronald Butler, Richard Gunst, Daniel Heitjan, Hon Keung Ng, Lynne Stokes, Sherry Wang, Wayne Woodward. **Associate Professors:** Jing Cao, Ian Harris, Monnie McGee. **Assistant Professor:** Cornelis Potgieter. **Senior Lecturers:** Alan Elliot, Stephen Robertson. **Lecturer:** Bivin Sadler.

General Information

Statistical data scientists are specialists in the collection, analysis and interpretation of data. There is an accelerating demand for experts in statistical analysis and data analytics because of today's big data phenomenon fueled by an explosion of data from sources such as sensors, social media, cloud computing, medical instruments, business processes and surveys. As a result, the field of statistics will be increasingly more fundamental to academia, business and government in order to accommodate the escalating dependence on data-driven decisions. An attractive aspect of the statistics profession is the wide variety of problems that can be addressed:

- Government agencies such as the U.S. Census Bureau and the Food and Drug Administration need statisticians.
- Manufacturing and related industries employ statisticians to work in areas such as quality and productivity.
- Banks and insurance companies hire statisticians to assist in modeling financial data.
- Medical schools, research hospitals and pharmaceutical companies typically employ statistical specialists as biostatisticians.

Because of its interdisciplinary nature, statistical science is a valuable double major or minor.

Bachelor of Science With a Major in Statistical Science

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.

Requirements for the Major	*Credit Hours*
Mathematics and Statistics	18
MATH 1337, 1338	
STAT 5304, 5371, 5372; and STAT 4340/EMIS 3340/CSE 4340 *or* STAT 5373 (with departmental approval)	
Electives	24
At least 9 hours from the following:	
STAT 3312, STAT 4385, STAT 5350 (or ECO 5350), 5370, 5375 (or ECO 5375), 5377 (or EMIS 5377),5380 (or ECO 5385), STAT 6308 (with permission), STAT 5374 (with permission	
Remaining hours from below if not included in the 9 hours above:	
ECON 3301 and any 4000 level or higher class	
EMIS 3308, 3360, 3361, any 5000-level class	
MATH 2339, 2343, any 3000 level or higher class	
One from STAT 1301, 2301, 2331; ITOM 2305	
Other approved courses	
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Minor in Statistical Science

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. In addition, students may receive three hours of credit one of the following: STAT 1301, 2301, 2331 or ITOM 2305.

Requirements for the Minor	*Credit Hours*
STAT 5371, 5372 and at least two additional STAT courses at the 3000 level or higher (or PSYC 3382)	12-15
At most one of STAT 2301, 2331, ITOM 2305	0-3
	15

The Courses (STAT)

STAT 2301 (3). 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. Introduces the use of Excel for statistical analysis, with a focus on business applications.

STAT 2331 (3). INTRODUCTION TO STATISTICAL METHODS. An introduction to statistics for behavioral, biological, and social sciences. Topics include descriptive statistics, probability, and inferential statistics, including hypothesis testing and contingency tables.

STAT 3312 (3). 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.

STAT 3380 (3). 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.

STAT 4340 (3). STATISTICAL METHODS FOR ENGINEERS AND APPLIED SCIENTISTS. Basic concepts of probability and statistics useful in the solution of engineering and applied science problems. Covers probability, probability distributions, data analysis, sampling distributions, estimation, and simple tests of hypothesis. *Prerequisites:* MATH 1337, 1338.

STAT 4385 (3). INTRODUCTION TO NONPARAMETRIC STATISTICS. Statistical methods that do not require explicit distributional assumptions such as normality. Analyses based on ranks. One- and multi- sample procedures. Tests of randomness and independence. *Prerequisite:* STAT 2301 or 2331, or equivalent.

STAT 5110 (1). INDEPENDENT STUDY IN STATISTICAL SCIENCE. Independent study of a selected topic in statistical science. Individual study under direction of a faculty member allowed for STAT 5110; group projects allowed for STAT 5310.

STAT 5304 (3). INTRODUCTION TO STATISTICAL COMPUTING. Introduces statistical computing, with an emphasis on SAS programming. Students learn how to read, write, and import data; prepare data for analysis; use SAS procedures; and create graphs. *Prerequisites:* STAT 1301, 2301, 2331 or equivalents.

STAT 5310 (3). INDEPENDENT STUDY IN STATISTICAL SCIENCE. Independent study of a selected topic in statistical science. Individual study under direction of a faculty member allowed for STAT 5110; group projects allowed for STAT 5310.

STAT 5340 (3). PROBABILITY AND STATISTICS FOR SCIENTISTS AND ENGINEERS. Introduction to fundamentals of probability and distribution theory, 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.

STAT 5344 (3). STATISTICAL QUALITY CONTROL. Statistics and simple probability are introduced in terms of problems that arise in manufacturing; their application to control of manufacturing processes. Acceptance sampling in terms of standard sampling plans: MIL-STD 105, MIL-STD 414, Dodge-Romig plans, continuous sampling plans, etc. *Prerequisites:* STAT 4340 or STAT 5340.

STAT 5350 (3). INTRODUCTORY ECONOMETRICS. The basic concepts of econometrics and, in particular, regression analysis, with topics geared to first-time regression users. *Prerequisites:* Graduate standing or C- or better in the following: MATH 1309 or 1337; ECO 3301; and ITOM 2305 or STAT 2301, 2331, or 4340.

STAT 5370 (3). SURVEY SAMPLING. Covers principles of planning and conducting surveys: simple random sampling; stratified and systematic subsampling; means, variances, and confidence limits; finite population correction; sampling from binomial populations; and margin of error and sample-size determination. *Prerequisite:* STAT 2301 or 2331.

STAT 5371 (3). EXPERIMENTAL STATISTICS I. Noncalculus development of fundamental statistical techniques, including hypothesis testing for population means and proportions, analysis of variance, factorial designs, and linear regression. Covers obtaining sample sizes during the planning stages of research studies and emphasizes interpretation of results from analysis with SAS statistical software.

STAT 5372 (3). EXPERIMENTAL STATISTICS II. Extension of techniques in STAT 5371 to multivariate data. Multiple linear regression, multivariate analysis of variance, canonical regression, and principal components analysis. Emphasizes interpretation of results from analysis with SAS. *Prerequisite:* STAT 5371.

STAT 5373 (3). MATHEMATICAL STATISTICS WITH APPLICATIONS. Similar to STAT 4340 but designed for students in the M.S. in applied statistics and data analytics program or for undergraduate students planning to take the 4+1 option to obtain an M.S. with a major in applied statistics and data analytics or to pursue a graduate degree in statistics. *Prerequisites:* MATH 1337, 1338.

STAT 5374 (3). MATHEMATICAL STATISTICS II. Second course in mathematical statistics. Topics include order statistics, limiting distributions, central limit theorem, point estimation, testing statistical hypotheses, Bayesian procedures, and nonparametric methods. *Prerequisite:* STAT 5373 (or STAT 4340 with permission of instructor).

STAT 5375 (3). ECONOMIC AND BUSINESS FORECASTING. This course presents methods used by economists to forecast economic and business trends. Statistical procedures for evaluating the usefulness of these methods are also discussed. Illustrative examples include forecasting GNP, interest rates, and unemployment. *Prerequisites:* C- or better in ECO 3301 and one of the following: STAT 2301, 2331, or 4340; or ITOM 2305 or equivalent; or graduate standing.

STAT 5377 (3). STATISTICAL DESIGN AND ANALYSIS OF EXPERIMENTS. Introduction to statistical principles in the design and analysis of industrial experiments. Completely randomized, randomized complete and incomplete block, Latin square, and Plackett-Burman screening designs. Complete and fractional factorial experiments. Descriptive and inferential statistics. Analysis of variance models. Mean comparisons. *Prerequisite:* STAT 4340 or 5371, or permission of instructor.

STAT 5380 (3). DATA MINING TECHNIQUES FOR ECONOMISTS. A study of data mining techniques used by economists in the fields of applied economics, marketing, finance, and statistics. These techniques include classification methods (logistic models, classification trees, neural networks), affinity analysis (association rules), and data reduction and exploration methods (principal components and k-means clustering). *Prerequisites:* C- or better in ECO 5350 and one of the following: STAT 2301, 2331, or 4340; or ITOM 2305 or equivalent; or graduate standing.

WORLD LANGUAGES AND LITERATURES

www.smu.edu/worldlanguages

Associate Professor Dayna Oscherwitz, **Department Chair**

ARABIC: **Senior Lecturer:** Liljana Elverskog. **Professor of Practice:** Omar Al-Rashdan. ***CHINESE:*** **Senior Lecturer:** Yan Xia. **Professors of Practice:** Xiao Hu, Wei Qu. ***FRENCH:*** **Professor:** Thomas DiPiero. **Associate Professor:** Dayna Oscherwitz. **Assistant Professors:** Maxime Foerster, Hervé Tchumkam. **Senior Lecturers:** Gwen Aaron, Paola Buckley, Martine Kincaid. **Lecturers:** Denis Bettaver, Rachel Ney. **Professors of Practice:** Omar Al-Rashdan, Janet Dodd, Thierry Tirado. ***GERMAN:*** **Associate Professors:** Gordon Birrell, Marie-Luise Gäettens. ***ITALIAN:*** **Senior Lecturers:** Brandy Alvarez, Teresa Brentegani. **Lecturer:** Damiano Bonuomo. ***JAPANESE:*** **Senior Lecturer:** Keiko Flores. ***LATIN:*** **Professor of Practice:** Patricia Rawlins. ***SPANISH:*** **Professors:** Denise DuPont, Francisco Morán. **Associate Professors:** Olga Colbert, Luis Maldonado-Peña, Alberto Pastor, Elizabeth Russ, Gabriela Vokic, Alicia Zuese. **Assistant Professor:** Rubén Sánchez-Godoy. **Senior Lecturers:** Maria Eguez, Susana Fernandez-Solera, Verónica León, Leticia McDoniel, Betty Nelson. **Lecturers:** Miroslava Detcheva, Linda Koski, Angie Morón-Nozaleda, Luis Polanco, Joy Saunders. **Professors of Practice:** Maria del Pilar Melgarejo Acosta, Donna Binkowski, Lourdes Molina.

General Information

The Department of World Languages and Literatures offers eight modern languages and one classical language. Students may pursue a B.A. degree in French, French Studies, German, Spanish and World Languages and minors in Arabic, Chinese, French, German, Italian, Italian Area Studies, Japanese, Latin, Russian Area Studies and Spanish. The B.A. in World Languages allows students to specialize in two different languages.

In pursing language study, students gain communicative proficiency in a second or third language, as well as cultural proficiency and heightened global awareness. Courses taught toward a language major or minor emphasize all of these through the study of communication, culture, literature, linguistics, history, film, politics business, and other diverse aspects of language and culture. Students may also apply these skills through a language-based internship, either in Dallas or abroad, and through independent research.

SMU Abroad Rules for Credit. Students participating in an SMU Abroad term program may automatically count nine hours of courses taught in an approved program toward a B.A. and six hours toward a minor. Students studying abroad for a full year may apply 15 hours with specific approval from the area chair of the language.

Departmental Distinction

1. Overall 3.500 GPA by the middle of the junior year.
2. Overall 3.700 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.

Requirements for a B.A. degree in French, French Studies, German, Spanish and World Languages, as well as for minors in Arabic, Chinese, French, German, Italian, Italian Area Studies, Japanese, Latin, Russian Area Studies and Spanish are given below.

Arabic

Minor in Arabic

Required Courses	*Credit Hours*
ARBC 2301, 2302, 3301, 3302 or equivalents	12
Two from the following, with at least one 3000-level or higher:	6
ANTH 3359	
ARBC 4312	
ARHS 3354, 3392 (CFA 3313)	
HIST 2355, 2379, 3323, 3326 (CF 3310), 3371, 3389, 3390, 3396, 4325	
PLSC 3345, 4340	
RELI 3329, 3362	
WL 3355 (CFB 3304)	
	18

Arabic Courses (ARBC)

All courses are conducted in Arabic.

ARBC 1310 (3). SPECIAL TOPICS ABROAD IN ARABIC. Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 1320 (3). SPECIAL TOPICS ABROAD IN ARABIC. Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 1401 (4). BEGINNING ARABIC I. Introductory course for students with no knowledge of the language. The course presents essential vocabulary, grammar, and Arabic culture.

ARBC 1402 (4). BEGINNING ARABIC II. Continues the oral practice, reading, writing, grammar, and cultural studies begun in ARBC 1401. Students acquire a substantial amount of vocabulary and idiomatic language. *Prerequisite:* ARBC 1401 (C- or higher) or its equivalent.

ARBC 2301 (3). INTERMEDIATE ARABIC I. Continues oral practice, reading, writing, grammar, and cultural studies. Students acquire a substantial amount of vocabulary, idiomatic language, and syntax that is more advanced. *Prerequisite:* ARBC 1402 or equivalent.

ARBC 2302 (3). INTERMEDIATE ARABIC II. Continues oral practice, reading, writing, grammar, and cultural studies. Students acquire a substantial amount of vocabulary, idiomatic language, syntax that is more advanced. *Prerequisite:* ARBC 2301 (C- or higher) or its equivalent.

ARBC 2310 (3). SPECIAL TOPICS ABROAD IN ARABIC. Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 2320 (3). SPECIAL TOPICS ABROAD IN ARABIC. Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 3301 (3). ADVANCED ARABIC I. Provides a thorough study of authentic materials in classical prose for mastery of classical Arabic. Involves extended readings and discussions of contemporary and historical cultural topics. *Prerequisite:* ARBC 2302 or its equivalent.

ARBC 3302 (3). ADVANCED ARABIC II. Provides a thorough study of authentic materials in classical prose for mastery of classical Arabic. Involves extended readings and discussions of contemporary and historical cultural topics. *Prerequisite:* ARBC 3301 (C- or higher) or its equivalent.

ARBC 3310 (3). SPECIAL TOPICS ABROAD IN ARABIC. Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 3320 (3). SPECIAL TOPICS ABROAD IN ARABIC. Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 3331 (3). ARABIC CULTURE: THE CULTURAL EVOLUTION OF ARAB SOCIETIES. Emphasizes cultural, artistic, and intellectual trends. *Prerequisite:* C- or better in ARBC 2302 or permission of instructor.

ARBC 4312 (3). ADVANCED MEDIA ARABIC. Introduces authentic texts and audio files from a wide variety of media sources and emphasizes the semantic and stylistic aspects of media Arabic rather than its grammar. *Prerequisites:* ARBC 3301 and 3302, or placement test, or departmental permission.

ARBC 4380 (3). SPECIAL TOPICS IN ARABIC. Independent study in Arabic language, literature, and culture in selected topics, authors, and genres. *Prerequisite:* ARBC 3302 or permission of instructor.

ARBC 4381 (3). SPECIAL TOPICS IN ARABIC LITERATURE AND CULTURE. Independent study of selected topics, authors, and genres in Arabic literature and culture. *Prerequisite:* ARBC 3302 or permission of instructor.

Chinese

Minor in Chinese

Students taking CHIN 4381 and 4382 for the language training component of the requirement must take another course from the list of supporting courses (Chinese culture, history or literature courses), for a total of 20 hours. 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.

Required Courses	*Credit Hours*
Language Training	14
CHIN 2401, 2402	
Two from CHIN 3311, 3312, 4381, 4382	
Supporting Courses (one from the following)	3
CHIN 4380, 4381, 4382, 4385	
HIST 3393, 3395, 3398	
RELI 3377, 3378	
WL 3310, 3312, 3325, 3395, 3397, 3398	
	17

Chinese Courses (CHIN)

All courses are conducted in Chinese.

CHIN 1401 (4). BEGINNING CHINESE. Introduction to spoken and written Mandarin Chinese. Emphasizes intensive drills in sounds and tones, sentence structure, and a vocabulary of 500 characters. Students attend three weekly master classes plus 2 hours of practice in small groups. Computer, video, and audio assignments are required.

CHIN 1402 (4). BEGINNING CHINESE: SECOND TERM. Introduction to spoken and written Mandarin Chinese. Emphasizes intensive drills in sounds and tones, sentence structure, and a vocabulary of 500 characters. Students attend three weekly master classes plus 2 hours of practice in small groups. Computer, video, and audio assignments are required. *Prerequisite:* C- or better in 1401 or permission of area chair.

CHIN 2401 (4). 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. *Prerequisite:* C- or better in CHIN 1402 or permission of area chair.

CHIN 2402 (4). INTERMEDIATE CHINESE: SECOND TERM. 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. *Prerequisite:* C- or better in CHIN 2401 or permission of area chair.

CHIN 3311 (3). ADVANCED CHINESE. Emphasizes the refinement 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. *Prerequisite:* Beginning and intermediate Chinese.

CHIN 3312 (3). 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.

CHIN 3321 (3). SPECIAL TOPICS ABROAD IN CHINESE. Courses in SMU-approved international programs. Prior departmental approval required.

CHIN 3322 (3). SPECIAL TOPICS ABROAD IN CHINESE. Courses in SMU-approved international programs. Prior departmental approval required.

CHIN 4380 (3). DIRECTED STUDIES IN CHINESE. Independent study in Chinese literature and culture in selected topics, authors, and genres. Permission of department required.

CHIN 4381 (3). READINGS IN CHINESE LITERATURE AND CULTURE. An upper-level course designed for students who have finished third-year Chinese. Students enhance their four language skills, especially reading and writing, through a wide variety of primary, unedited texts. *Prerequisite:* CHIN 3312 or consent of area chair.

CHIN 4382 (3). CHINESE CULTURE AND SOCIETY IN FILMS. An advanced course for students who have completed CHIN 4381. Enhancement of all four language skills through unedited texts and films from China and Taiwan. *Prerequisite:* CHIN 4381 or consent of area chair.

French

Bachelor of Arts With a Major in French

Courses are to be selected in consultation with the major adviser. Study with SMU-in-Paris and/or SMU-in-the-South of France is strongly recommended. **Note:** FREN 4371 and 4372 cannot be double counted.

Required Courses	*Credit Hours*
FREN 2302, 3101, 3356	7
FREN 4375	3
One course from FREN 4370, 4371, 4372, 4381	3
Two 5000-level FREN courses *or* one 5000-level FREN course and one from WL 3302, 3308, 3309, 3330, 3341, 3351, 3355, 3362, or another approved WL course	6
Electives: Three 4000- or 5000-level FREN courses	9
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Bachelor of Arts With a Major in French Studies

Courses are to be selected in consultation with the major adviser. Study with SMU-in-Paris and/or SMU-in-the-South of France is strongly recommended. **Note:** FREN 4371 and 4372 cannot be double counted.

Required Courses	*Credit Hours*
FREN 2302, 3101, 3356	7
FREN 4375	3
Three courses from 4000-level or 5000-level FREN courses	9
One course from among WL 3302, 3308, 3309, 3330, 3341, 3351, 3355, 3362, or another approved WL course	3
Electives: Two courses from the following approved list: ARHS 1335, 3320, 3346, 3347, 348, 3352, 4320, 4344, 4352, 5377 DANC 1301, 1302 EDU 5121, 5122, 5123, 5124, 5125, 5126, 5363, 5364, 5373, 5374 (with approval) FILM 3375/CFA 3375 HIST 3329, 3332, 3334, 3352, 3355, 3359, 3365, 3366, 3381, 4372, 4373, 5370, 5371 MUHI 3302, 3343 PLSC 3340, 3341, 4343, 5341 THEA 4386/CFA 3386 *(Other courses, through a process of student petition, will be considered provided a substantial portion of the course is devoted to aspects of the cultures of the francophone world.)*	6
	28

Minor in French

Required Courses	*Credit Hours*
FREN 2401 *or* equivalent	4
FREN 2302, 3101, 3356, 4370 *or* 4375	10
Two 4000- *or* 5000-level FREN courses	6
	20

French Courses (FREN)

All courses are conducted in French.

Language Courses	FREN 1401, 1402, 1601, 2201, 2401, 2455, 3101, 3356, 4103, 4185, 4285, 4385, 4355, 4356, 4357
Literature and Culture Courses	FREN 4365, 4370–76, 4381, 4391, 5180, 5320, 5321, 5325, 5334, 5335, 5344, 5345, 5350, 5351, 5361, 5365–69, 5380, 5381

FREN 1101 (1). BEGINNING CONVERSATION PRACTICE.

FREN 1102 (1). BEGINNING CONVERSATION PRACTICE.

FREN 1401 (4). BEGINNING FRENCH: TERM ONE. Stresses acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes per week. *Prerequisite:* This course is reserved for students with no previous knowledge of French.

FREN 1402 (4). BEGINNING FRENCH: TERM TWO. Stresses acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes per week. *Prerequisite:* C- or better in FREN 1401, a minimum qualifying score on the SMU French placement exam, or permission of area chair.

FREN 1502 (5). BEGINNING FRENCH II WITH REVIEW. Extensive review of the first term of French, designed for students who have had French previously but who are not ready for FREN 1402.

FREN 1601 (6). ACCELERATED BEGINNER FRENCH. An accelerated, immersion beginner course taught in Paris that covers all the material in FREN 1401, 1402. By application. *Prerequisite:* Permission of program director. (SMU Abroad)

FREN 2101 (1). INTERMEDIATE CONVERSATION PRACTICE. Offered in the South of France, SMU-Abroad.

FREN 2102 (1). INTERMEDIATE CONVERSATION PRACTICE. Offered in the South of France, SMU-Abroad.

FREN 2201 (2). FRANCE TODAY: CULTURE, SOCIETY, AND 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)

FREN 2302 (3). INTERMEDIATE FRENCH II. Refinement of all four language skills, with special emphasis on oral proficiency. Includes study of oral presentations, viewing and discussion of films, vocabulary development, grammar review, short literary readings, and compositions. Three classes per week. *Prerequisite:* C- or better in FREN 2401 or appropriate score on the French language placement exam.

FREN 2401 (4). SECOND-YEAR/INTERMEDIATE FRENCH. Continues to strengthen the four language skills, with added emphasis on reading and writing. Five classes per week. Completes the second-year language requirement in French. *Prerequisite:* C- or better in FREN 1402 or 1502 or a minimum qualifying score on the SMU French placement exam.

FREN 2455 (4). INTERMEDIATE FRENCH II. 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. *Prerequisite:* C- or better in FREN 2401.

FREN 3101 (1). FRENCH PHONICS. Perfecting French pronunciation: individual sounds, word groups, rhythmic patterns, intonation. Use of audiocassettes and interactive software. *Corequisite:* FREN 3355. *Prerequisite:* FREN 2401.

FREN 3102 (1). ADVANCED CONVERSATION PRACTICE.

FREN 3321 (3). SPECIAL TOPICS ABROAD IN FRENCH. Courses in SMU-approved international programs. Prior departmental approval required.

FREN 3322 (3). SPECIAL TOPICS ABROAD IN FRENCH. Courses in SMU-approved international programs. Prior departmental approval required.

FREN 3356 (3). 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 2455 or permission of area chair.

FREN 4103 (1). ADVANCED READINGS IN FRENCH. Optional course open to students simultaneously enrolled in WL 3349 or HIST 3392. This course is for students proficient in French who would like to have a 1-hour class per week to read some of the course materials in the original French, as well as to discuss and write about them in French. *Corequisite:* WL 3349/HIST 3392. *Prerequisites:* FREN 4370 or equivalent and permission of instructor.

FREN 4185 (1). INTERNSHIP IN FRENCH. Offers 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 3.000 or higher; GPA in French of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

FREN 4285 (2). INTERNSHIP IN FRENCH. Offers 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 3.000 or higher; GPA in French of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

FREN 4321 (3). SPECIAL TOPICS ABROAD IN FRENCH. Courses in SMU-approved international programs. Prior departmental approval required.

FREN 4322 (3). SPECIAL TOPICS ABROAD IN FRENCH. Courses in SMU-approved international programs. Prior departmental approval required.

FREN 4355 (3). ADVANCED SPOKEN FRENCH. Focuses on the development of oral and aural skills and topic-specific vocabulary. Includes readings and discussion of texts and commentaries on contemporary French society and culture, and viewing and discussion of feature films. *Prerequisite:* C- or better in FREN 3356 or permission of area chair.

FREN 4356 (3). 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. *Prerequisite:* C- or better in FREN 3356 or permission of area chair.

FREN 4357 (3). 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. *Prerequisite:* C- or better in FREN 3356 or permission of area chair.

FREN 4365 (3). INTRODUCTION TO FRENCH CINEMA. Introduces French cinema's major works, filmmakers, and trends, with a continued emphasis on improvement of advanced French language skills. *Prerequisite:* C- or better in FREN 3356 or permission of area chair.

FREN 4370 (3). 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, and essay. *Prerequisite:* C- or better in FREN 3356 or permission of area chair.

FREN 4371 (3). 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. *Prerequisite:* C- or better in FREN 4370 or permission of area chair.

FREN 4372 (3). FRENCH LITERATURE, 1789–PRESENT: SHOW ME YOUR TEETH. Overview of French and Francophone literary history from the beginning of the 19th century to the present. Selection of texts from major dramatists, poets, and writers of prose fiction.

FREN 4373 (3). FRENCH CIVILIZATION. The evolution of French society, with emphasis on cultural, artistic, and intellectual trends. *Prerequisites:* C- or better in FREN 3455, 3356 or permission of area chair. (SMU-in-Paris and SMU-in-the-South of France only)

FREN 4374 (3). FRENCH CIVILIZATION. The evolution of French society, with emphasis on cultural, artistic, and intellectual trends. *Prerequisites:* C- or better in FREN 3455, 3356 or permission of area chair. (SMU-in-Paris and SMU-in-the-South of France only)

FREN 4375 (3). INTRODUCTION TO FRENCH HISTORY AND CULTURE. Survey of French political and cultural history from Roman Gaul to the Fifth Republic. Topics include characteristic institutions, social groups and individuals, and key cultural myths. *Prerequisite:* C- or better in FREN 3356 or permission of instructor and area chair.

FREN 4376 (3). 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. *Prerequisite:* C- or better in FREN 4370 or permission of area chair.

FREN 4379 (3). INTRODUCTION TO FRENCH CULTURE AND LITERATURE I. Survey of French social, cultural, and literary histories from the time of Charlemagne to the end of the reign of Louis XIV. *Prerequisite:* FREN 4370.

FREN 4380 (3). INTRODUCTION TO FRENCH CULTURE AND LITERATURE II. Survey of French and Francophone social, cultural, and literary histories from the death of Louis XIV to the Dreyfus scandal. *Prerequisite:* FREN 4370.

FREN 4381 (3). INTRODUCTION TO FRENCH CULTURE AND LITERATURE III. Survey of French and francophone social, cultural, and literary histories from the beginning of the 20th century to the present. *Prerequisite:* FREN 4370.

FREN 4385 (3). 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 3.000 or higher; GPA in French of 3.300 or higher; and sponsorship of a professor and of the organization, agency or corporation.

FREN 4391 (3). COMMERCIAL FRENCH FOR INTERNATIONAL TRADE. An advanced course for international trade and communication. *Prerequisite:* C- or better in FREN 3356 or permission of area chair.

FREN 5180 (1). INDEPENDENT STUDY.

FREN 5320 (3). 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:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5321 (3). 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:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5322 (3). FRANCE: CULTURE AND SOCIETY.

FREN 5325 (3). LITERATURE ON HUMAN RIGHTS: THINKING A BETTER WORLD. Dedicated to the reading, discussion, and analysis of a series of essays and fictions written in 19th-century France. The literature deals with the common thread of social justice and human rights through four specific themes: women, proletarian workers, slaves, and artists. Students explore the literature's engagement in the illustration and discussion of human rights in the aftermath of the French Revolution. *Prerequisites:* B- or better in FREN 4370 and in any two additional 4000-level FREN courses; consent of the French area chair.

FREN 5334 (3). GENRE STUDIES. Examines the works of several authors as a means of understanding the nature and evolution of a particular genre. Specific topics vary. *Prerequisites:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5335 (3). GENRE STUDIES. Examines the works of several authors as a means of understanding the nature and evolution of a particular genre. Specific topics vary. *Prerequisites:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5344 (3). LITERARY MOVEMENTS. Explores the conventions that shape a specific movement through a reading of representative texts by various authors. Topics vary. *Prerequisites:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5345 (3). LITERARY MOVEMENTS. Explores the conventions that shape a specific movement through a reading of representative texts by various authors. Topics vary. *Prerequisites:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5350 (3). PROBLEMS IN FRENCH LITERATURE. The definition of a particular theme as elaborated by a group of writers, usually covering different times and genres. Specific topics vary. *Prerequisites:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5351 (3). PROBLEMS IN FRENCH LITERATURE. The definition of a particular theme as elaborated by a group of writers, usually covering different times and genres. Specific topics vary. *Prerequisites:* FREN 4370 and any two additional French courses at the 4000 or 5000 level.

FREN 5361 (3). LITERARY TRANSLATION: THEORY AND PRACTICE. Exploring the relationship between interpretation and translation. Individual projects in a workshop setting. *Prerequisites:* Any two from FREN 4371, 4372, 4373, 4374 or permission of area chair.

FREN 5365 (3). TOPICS IN FRENCH AND FRANCOPHONE CINEMA. A seminar in French and Francophone film studies. Topics vary. *Prerequisites:* C- in FREN 3455, 3356 or permission of instructor and French area chair.

FREN 5366 (3). TOPICS IN FRENCH AND FRANCOPHONE CINEMA. A seminar in French and Francophone film studies. Topics vary. *Prerequisites:* C- in FREN 3455, 3356 or permission of instructor and French area chair.

FREN 5367 (3). MAJOR AUTHORS. Focused study of one especially important writer and/or thinker whose work has had a major impact on French and European literature and thought (e.g., Montaigne, Rousseau, Balzac, or Sartre). *Prerequisites:* C- or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

FREN 5368 (3). MAJOR AUTHORS. Focused study of one especially important writer and/or thinker whose work has had a major impact on French and European literature and thought (e.g., Montaigne, Rousseau, Balzac, or Sartre). *Prerequisites:* C- or better in FREN 4370 and any two other courses at the 4000 level, or permission of area chair.

FREN 5369 (3). FRENCH COLONIAL AND POSTCOLONIAL CINEMA. A study of the evolution of French attitudes toward colonialism and colonized peoples through film, with an emphasis on the colonization of North and West Africa. *Prerequisites:* FREN 3356 and 4375, or instructor permission.

FREN 5370 (3). SEMINAR IN FRENCH LITERATURE.

FREN 5371 (3). SEMINAR IN MYTH AND SYMBOLISM.

FREN 5380 (3). TUTORIAL FOR JUNIORS AND SENIORS. By invitation of the entire area only. Special project set up with the help of the area chair. *Prerequisite:* Permission of the department.

FREN 5381 (3). TUTORIAL FOR JUNIORS AND SENIORS. By invitation of the entire area only. Special project set up with the help of the area chair. *Prerequisite:* Permission of the department.

German

Bachelor of Arts With a Major in German

Proficiency in written and spoken German is demonstrated by coursework in GERM 3311. 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 are courses in a second world language; other world literature in translation; literary criticism; English and American literature; linguistics, semiotics or philology; and German art history, philosophy or history.

Required Courses	*Credit Hours*
GERM 3311, 3320	6
Electives (3000 level and above, approved by adviser)	18
	24

Minor in German

Required Courses	*Credit Hours*
GERM 2311, 2312, 3311	9
Three advanced GERM courses approved by adviser	9
	18

German Courses (GERM)

All courses are conducted in German.

GERM 1401 (4). BEGINNING GERMAN. Stresses acquisition of basic skills: speaking, aural comprehension, reading, and writing. Classes meet 5 hours a week.

GERM 1402 (4). BEGINNING GERMAN II. Stresses acquisition of basic skills: speaking, aural comprehension, reading, and writing. Classes meet 5 hours a week. *Prerequisite:* C- or better in GERM 1401 or permission of area chair.

GERM 2311 (3). CULTURE, GRAMMAR, AND LITERATURE. Discussions and compositions based on literary and cultural texts, and review of grammar. *Prerequisite:* C- or better in GERM 1402 or permission of area chair.

GERM 2312 (3). CULTURE, GRAMMAR, AND LITERATURE. Discussions and compositions based on literary and cultural texts, and review of grammar. *Prerequisite:* C- or better in GERM 2311 or permission of the area chair.

GERM 3311 (3). 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:* GERM 2312 or the equivalent.

GERM 3312 (3). ADVANCED GERMAN COMPOSITION. Discussion of short contemporary texts; compositions on personal topics. Selective study of grammar. *Prerequisite:* GERM 3311 or permission of department.

GERM 3313 (3). GERMANY TODAY: PEOPLE, CULTURE, AND SOCIETY. Explores current German culture; readings in newspapers and magazines to acquaint students with today's German cultural and political scene; and conversations, oral presentations, and compositions. *Prerequisite:* C- or better in GERM 3311 or permission of instructor.

GERM 3320 (3). CONTEMPORARY GERMAN CULTURE. An exploration of the German cultural scene through magazine and newspaper articles, short stories, television, and films from the postwar era to the present. *Prerequisite:* C- or better in GERM 3311 or permission of instructor.

GERM 3321 (3). SPECIAL TOPICS ABROAD IN GERMAN. Courses in SMU-approved international programs. Prior departmental approval required.

GERM 3322 (3). SPECIAL TOPICS ABROAD IN GERMAN. Courses in SMU-approved international programs. Prior departmental approval required.

GERM 3325 (3). INTRODUCTION TO GERMAN LITERATURE. Includes works from major genres (lyric poetry, drama, narrative fiction), an overview of the history of German literature, and an introduction to analytical techniques and procedures. *Prerequisite:* C- or better in GERM 3311 or permission of instructor.

GERM 3330 (3). GREAT GERMAN STORIES: KAFKA, MANN, WOLF, AND OTHERS. Short narrative forms from the beginning of the 20th century to the present: Mann, Kafka, Brecht, Boll, Seghers, Bachmann, Wolf, and others. Includes consideration of two postwar German literatures (the German Democratic Republic and the Federal Republic of Germany). *Prerequisite:* GERM 3311 or permission of instructor.

GERM 3370 (3). ADVANCED GERMAN GRAMMAR AND USAGE. Intensive study of advanced grammatical forms, syntactical structures, and usage distinctions in modern German. Weekly short, written assignments. Not open to native speakers of the language. *Prerequisite:* C- or better in GERM 3311 or permission of instructor.

GERM 4185 (1). INTERNSHIP IN GERMAN. Offers 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 3.000 or higher; GPA in German of 3.000 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

GERM 4285 (2). INTERNSHIP IN GERMAN. Offers 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 3.000 or higher; GPA in German of 3.000 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

GERM 4310 (3). 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. *Prerequisites:* GERM 3320, 3313 or permission of instructor.

GERM 4320 (3). MODERN DRAMA. Critical reading of dramatic works by major German, Austrian, and Swiss authors (Büchner, Schnitzler, Brecht, Dürrenmatt, Aichinger, Bachman, Müller, Jelineck, and others), with some attention to critical theory. *Prerequisites:* GERM 3313, 3320 or permission of instructor.

GERM 4321 (3). SPECIAL TOPICS ABROAD IN GERMAN. Courses in SMU-approved international programs. Prior departmental approval required.

GERM 4322 (3). SPECIAL TOPICS ABROAD IN GERMAN. Courses in SMU-approved international programs. Prior departmental approval required.

GERM 4330 (3). 19TH-CENTURY STORIES. Short narrative forms from Romanticism through realism to fin-de-siècle Vienna: Grimm, Eichendorff, Kleist, Storm, Schnitzler, and others. *Prerequisite:* GERM 3320 or permission of instructor.

GERM 4340 (3). GREAT PLAYS FOR LISTENING. Selections from the golden age of the German Horspiel: Borchert, Boll, Dürrenmatt, Aichinger, Bachmann, Jandl, Mayröcker, and others. *Prerequisites:* GERM 3313, 3320 or permission of instructor.

GERM 4350 (3). HISTORY, CULTURE, AND IDENTITY IN POSTWAR 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:* GERM 3320 or permission of instructor.

GERM 4360 (3). CHILDHOOD AND YOUTH IN GERMAN LITERATURE AND FILM. Traces the representation of childhood and youth through German literature and film from the 19th century to the present. *Prerequisite:* GERM 3320, or 3330, or permission of instructor

GERM 4370 (3). MEMORY AND VICTIMIZATION DISCOURSES IN GERMANIC FILM AND LITERATURE SINCE 1945. Introduces students to discourses in German-speaking lands related to World War II and the Holocaust through film and literature, and explores major historical developments in coming to terms with the Nazi past. *Prerequisite:* C- or better in GERM 3320 or permission of instructor.

GERM 4385 (3). INTERNSHIP IN GERMAN. Offers 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 3.000 or higher; GPA in German of 3.000 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

GERM 5310 (3). 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:* Any 4000-level course or permission of instructor.

GERM 5326 (3). SPECIAL TOPICS ABROAD IN GERMAN. Courses in SMU-approved international programs. Prior departmental approval required.

GERM 5330 (3). PROBLEMS WITH THE SELF. Poems, essays, and novellas dealing with the perception of self, from the Middle Ages to modern times. Walther, Fleming, Lichtenberg, Kleist, Goethe, Hesse, Mann, and others. *Prerequisite:* Any 4000-level course or permission of instructor.

GERM 5380 (3). DIRECTED STUDIES. Permission of department.

GERM 5381 (3). DIRECTED STUDIES. Independent study in German literature and culture in selected topics, authors, and genres. *Prerequisite:* Permission of the department.

Italian

Minor in Italian

Required Courses	*Credit Hours*
ITAL 2401, 2402, 3355, and 3357 *or* 3373	14
Two 4000-level ITAL courses approved by adviser	6
	20

Minor in Italian Area Studies

Required Courses	*Credit Hours*
ITAL 2401, 2402, 3355, and 3357 *or* 3373	14
One 4000-level ITAL course approved by adviser	3
One from the following, with adviser's approval:	3
ARHS 3312, 3314, 3331, 3332 HIST 3351, 3358, 3359, 3361, 3365, 3366, 3376 WL 2395, 3390, 3391, 3392, 3393, 3394	
	20

Italian Courses (ITAL)

All courses are conducted in Italian.

Literature Courses	ITAL 4323, 4324, 4325, 4368, 4381, 4382

ITAL 1401 (4). BEGINNING ITALIAN. Stresses acquisition of basic skills: speaking, aural comprehension, reading, and writing. Students attend three weekly foundations classes plus 2 hours of applications classes for practice in small groups. Computer, video, and audio assignments in the World Language Learning Center are required.

ITAL 1402 (4). BEGINNING ITALIAN: SECOND TERM. Stresses acquisition of basic skills: speaking, aural comprehension, reading, and writing. Students attend three weekly foundations classes plus 2 hours of applications classes for practice in small groups. Computer, video, and audio assignments in the World Language Learning Center are required. *Prerequisite:* C- or better in 1401 or permission of area chair.

ITAL 2401 (4). INTERMEDIATE ITALIAN: FIRST TERM. Continues to strengthen the four language skills, with added emphasis on reading and writing. Students attend three weekly foundations classes plus 2 hours of applications classes for practice in small groups. Computer, video, and audio assignments in the World Language Learning Center are required. *Prerequisite:* C- or better in ITAL 1402 or permission of area chair.

ITAL 2402 (4). INTERMEDIATE ITALIAN: SECOND TERM. Continued strengthening of all four language skills (listening, speaking, reading, and writing). Computer, video, and audio assignments are required. *Prerequisite:* C- or better in ITAL 2401 or permission of area chair.

ITAL 3320 (3). SPECIAL TOPICS ABROAD IN ITALIAN. Courses in SMU-approved international programs. Prior departmental approval required.

ITAL 3321 (3). SPECIAL TOPICS ABROAD IN ITALIAN. Courses in SMU-approved international programs. Prior departmental approval required.

ITAL 3355 (3). ADVANCED ITALIAN CONVERSATION. An advanced course for majors and nonmajors intended to improve linguistic proficiency within the context of studying contemporary Italian movies and culture. *Prerequisite:* C- or better in ITAL 2402 or permission of the instructor.

ITAL 3357 (3). GRAMMAR AND COMPOSITION. Analysis and imitation of short contemporary texts: letters, film reviews, articles, criticism, narratives. Development of oral and written proficiency. Selective study of grammar. *Prerequisite:* ITAL 2401.

ITAL 3373 (3). ITALIAN CULTURE. The evolution of Italian society with emphasis on cultural, artistic, and intellectual trends. *Prerequisite:* ITAL 2401.

ITAL 4185 (1). INTERNSHIP IN ITALIAN. Offers 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 3.000 or higher; GPA in Italian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

ITAL 4285 (2). INTERNSHIP IN ITALIAN. Offers 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 3.000 or higher; GPA in Italian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

ITAL 4320 (3). SPECIAL TOPICS ABROAD IN ITALIAN. Courses in SMU-approved international programs. Prior departmental approval required.

ITAL 4321 (3). SPECIAL TOPICS ABROAD IN ITALIAN. Courses in SMU-approved international programs. Prior departmental approval required.

ITAL 4322 (3). MODERN ITALIAN LITERATURE I.

ITAL 4323 (3). MODERN ITALIAN LITERATURE II. Covers the latter half of the 19th century to World War I: realism, decadentism, and the grotesque and authors Verga, D'Annunzio, and Pirandello. *Prerequisite:* ITAL 2401.

ITAL 4324 (3). CONTEMPORARY ITALIAN LITERATURE. Covers the fascist period and World War II: introspection, society, and the problem of evil and authors Moravia, Pavese, Bassani, Buzzati, and Ginzburg. *Prerequisite:* ITAL 2401.

ITAL 4325 (3). ITALIAN POETRY SINCE DANTE. Historical survey of works of poetry presented in their original form, from the medieval Dolce Stil Novo movement to the poetic styles of the 20th century. *Prerequisite:* ITAL 3357 or permission of instructor.

ITAL 4367 (3). ITALIAN AUTHORS. Italian authors from the Middle Ages to the modern age.

ITAL 4368 (3). ITALIAN AUTHORS: CONTEMPORARY. *Prerequisite:* ITAL 2401.

ITAL 4381 (3). 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.

ITAL 4382 (3). 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.

ITAL 4385 (3). INTERNSHIP IN ITALIAN. Offers 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 3.000 or higher; GPA in Italian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

Japanese

Minor in Japanese

Required Courses	*Credit Hours*
JAPN 2401, 2402, 3311, 3312	14
One from the following:	3
ARHS 3394	
FILM 3359	
HIST 3395	
JAPN 4381	
PLSC 3346	
WL 3398	
	17

Japanese Courses (JAPN)

All courses are conducted in Japanese.

JAPN 1401 (4). BEGINNING JAPANESE. Focuses on oral and aural proficiency for daily communication situations, mastery of Japanese writing systems (hiragana, katakana, basic kanji), and foundational grammar.

JAPN 1402 (4). BEGINNING JAPANESE: SECOND TERM. Focuses on oral and aural proficiency for daily communication situations, mastery of Japanese writing systems (hiragana, katakana, basic kanji), and foundational grammar. *Prerequisite:* C- or better in 1401 or permission of area chair.

JAPN 1501 (5). JAPANESE AT KGU, LEVEL 1. Emphasis on understanding of basic Japanese grammar, mastery of fundamental sentence patterns, and acquisition of 170 new kanji. Provides basic reading skills.

JAPN 2201 (2). JAPANESE AT KGU, LEVEL 3.

JAPN 2401 (4). 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:* C- or better in JAPN 1402 or permission of area chair.

JAPN 2402 (4). INTERMEDIATE JAPANESE: SECOND TERM. 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:* C- or better in 2401 or permission of area chair.

JAPN 2500 (5). JAPANESE AT KGU, LEVEL 2.

JAPN 3311 (3). THIRD-YEAR JAPANESE. Emphasis on enhancing abilities in advanced reading and writing skills, and communicating with accuracy and grammatical complexity. Students also acquire the ability to use refined honorific forms in appropriate cultural contexts. *Prerequisite:* C- or better in JAPN 2402 or permission of area chair.

JAPN 3312 (3). THIRD-YEAR JAPANESE: SECOND TERM. Emphasis on enhancing abilities in advanced reading and writing skills, communicating with accuracy and grammatical complexity. Students also acquire the ability to use refined honorific forms in appropriate cultural contexts. *Prerequisite:* C- or better in JAPN 3311 or permission of area chair.

JAPN 3320 (3). SPECIAL TOPICS ABROAD IN JAPANESE. Courses in SMU-approved international programs. Prior departmental approval required.

JAPN 3321 (3). SPECIAL TOPICS ABROAD IN JAPANESE. Courses in SMU-approved international programs. Prior departmental approval required.

JAPN 3501 (5). JAPANESE AT KGU, LEVEL 2. Further development of basic reading skills, with emphasis on an adequate command of complex sentence patterns. Acquisition of 200 new kanji.

JAPN 3600 (6). STUDIES IN JAPAN. Selected coursework at KGU, chosen in consultation with adviser. Equivalent SMU course numbers to be determined upon receipt of grades after the end of the term.

JAPN 3900 (9). STUDIES IN JAPAN: SECOND TERM. Selected coursework at KGU, chosen in consultation with adviser. Equivalent SMU course numbers to be determined upon receipt of grades after the end of the term.

JAPN 4381 (3). READINGS IN JAPANESE CULTURE AND BUSINESS. Upper-level language course designed for students who have finished third-year Japanese. Students enhance their speaking, reading, and writing skills through a wide range of primary materials. *Prerequisite:* JAPN 3312 or approval of area chair.

JAPN 4501 (5). JAPANESE AT KGU, LEVEL 3. Grammar and reading, advanced. Vocabulary buildup and acquisition of reading and writing 200 new kanji.

JAPN 5501 (5). JAPANESE AT KGU, LEVEL 4. Students read a variety of selected materials for better understanding of the Japanese culture and ways of thinking. Acquisition of a larger vocabulary and 250 new kanji.

JAPN 6501 (5). Japanese at KGU, Level 5 and 6. Emphasis on reading and discussions in Japanese: further improvement of reading and writing, 250 new Kanji.

Latin

Minor in Latin

Required Courses	*Credit Hours*
LATN 2311, 2312, or equivalent	6
Three from LATN 3323, 3324, 3325, 3326, 3327	9
One from the following:	3
ARHS 1303, 3310, 3311, 3313, 3315, 3316, 4310, 5304, 5305 CLAS 2311, 2332, 3312 ENGL 2371, 3382 HIST 2350, 2351, 2352, 2353, 2354, 3350, 3353, 3354, 3355, 3356, 3361, 5380 LATN 3323, 3324, 3325, 3326, 3327 PHIL 3351 RELI 1304, 3348, 3352, 3371	
	18

Latin Courses (LATN)

LATN 1401 (4). BEGINNING LATIN I. Structures of the Latin language: vocabulary, grammar, and syntax. Also, introduction to Roman history and culture, and simple readings from Latin authors.

LATN 1402 (4). BEGINNING LATIN II. Structures of the Latin language: vocabulary, grammar, and syntax. Also, introduction to Roman history and culture, and simple readings from Latin authors. *Prerequisite:* C- or better in 1401.

LATN 2311 (3). SECOND-YEAR LATIN. Readings from Latin prose authors: Caesar, Livy, Eutropius. *Prerequisite:* C- or better in LATN 1402.

LATN 2312 (3). SECOND-YEAR LATIN: SECOND TERM. Readings from Roman prose and poetry (Caesar, Pliny, Ovid). *Prerequisite:* C- or better in LATN 2311 or consent of the area chair.

LATN 3185 (1). INTERNSHIP IN LATIN. Offers 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 3.000 or higher; GPA in Latin of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or institution.

LATN 3285 (2). INTERNSHIP IN LATIN. Offers 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 3.000 or higher; GPA in Latin of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or institution.

LATN 3323 (3). LATIN LITERATURE. 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, and religion and philosophy. *Prerequisite:* C- or better in LATN 2312 or permission of the area chair.

LATN 3324 (3). ADVANCED LATIN GRAMMAR AND COMPOSITION. Development of skills in analyzing and translating complex grammatical structures; practice in writing Latin with correct syntax and usage. *Prerequisite:* C- or better in LATN 2312 or permission of instructor.

LATN 3325 (3). 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.

LATN 3326 (3). ADVANCED LATIN READINGS: VERGIL. Students experience the integration of storytelling with the artistry of language in the Aeneid, through which Vergil creates a national epic with political and cultural impact. *Prerequisite:* C- or better in LATN 2312 or permission of instructor.

LATN 3327 (3). ADVANCED LATIN: MYTH VIA OVID. Students discover the classical inspiration for great works of Western civilization's art and literature through Ovid's recounting of mythological transformations and heroic tales in the poem "Metamorphoses." *Prerequisite:* C- or better in LATN 2312 or permission of instructor.

LATN 3330 (3). SPECIAL TOPICS ABROAD IN LATIN. Courses in SMU-approved international programs. Prior departmental approval required.

LATN 3331 (3). SPECIAL TOPICS ABROAD IN LATIN. Courses in SMU-approved international programs. Prior departmental approval required.

LATN 3335 (3). MEDIEVAL LATIN. Explores the rich heritage of medieval Latin literature from the fifth century to the 13th century: prose and poetry; texts of history; and philosophy, theology, and spiritual writings. (Medieval Studies Consortium course; permission of director required).

LATN 3385 (3). INTERNSHIP IN LATIN. Offers 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 3.000 or higher; GPA in Latin of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or institution.

Russian

Minor in Russian Area Studies

Required Courses	*Credit Hours*
RUSS 2341, 2351	6
One from RUSS 3323, 3351, 3361, 3362	3
RUSS 3341, 3302	6
or RUSS 3304 and one supporting course	
or two from the list below	
HIST 3340, 3341, 5367	
PLSC 3351, 3358, 3359 (CFA 3359), 3365, 4358, 4384	
WL 3323	
	15

Russian Courses (RUSS)

All courses are conducted in Russian.

RUSS 1351 (3). RUSSIAN FOR READING KNOWLEDGE I: GRAMMAR AND SYNTAX. A comprehensive overview of the grammar and syntax of Russian for students who aim at reading proficiency only and for those who expect to use the course as a platform for developing conversational and writing skills later on.

RUSS 1401 (4). BEGINNING RUSSIAN. An overview of the structures of the Russian language, with emphasis on skills of comprehension, speaking, reading, and writing. Foundations sections (two 50-minute classes per week) aim at understanding concepts and grammatical structures. Applications sections (three 50-minute classes per week) concentrate on oral drill and conversation practice.

RUSS 1402 (4). BEGINNING RUSSIAN, SECOND TERM. An overview of the structures of the Russian language, with emphasis on skills of comprehension, speaking, reading, and writing. Foundations sections (two 50-minute classes per week) aim at understanding concepts and grammatical structures. Applications sections (three 50-minute classes per week) concentrate on oral drill and conversation practice. *Prerequisite:* C- or better in 1401 or permission of area chair.

RUSS 2312 (3). INTERMEDIATE RUSSIAN.

RUSS 2341 (3). 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. This workshop targets skills of oral and textual comprehension and active conversational skill. *Prerequisite:* C- or better in RUSS 1402 or permission of area chair.

RUSS 2351 (3). RUSSIAN SYNTAX AND COMPOSITION. Students review grammatical and syntactic structures and employ them in writing, using text and materials from everyday life in today's Russia. Uses the multilevel workshop system also employed in RUSS 2341. *Prerequisite:* C- or better in RUSS 1402 or permission of area chair.

RUSS 3202 (2). PRACTICUM IN RUSSIAN CONVERSATION AND PHONETICS.

RUSS 3302 (3). PRACTICUM IN RUSSIAN CONVERSATION AND PHONETICS. (Russia, summer)

RUSS 3304 (3). RUSSIAN GRAMMAR PRACTICUM. Held in Russia.

RUSS 3311 (3). ADVANCED RUSSIAN CONVERSATION. Intensive training in Russian composition with a thorough study of grammatical structure. Continued work on conversation and reading. *Prerequisite:* RUSS 2312 or consent of instructor.

RUSS 3312 (3). ADVANCED RUSSIAN COMPOSITION. Continuation of advanced Russian grammar and syntax. *Prerequisite:* RUSS 3311 or consent of instructor.

RUSS 3321 (3). SPECIAL TOPICS ABROAD IN RUSSIAN. Courses in SMU-approved international programs. Prior departmental approval required.

RUSS 3322 (3). SPECIAL TOPICS ABROAD IN RUSSIAN. Courses in SMU-approved international programs. Prior departmental approval required.

RUSS 3323 (3). PRACTICUM IN RUSSIAN CULTURE. Held in St. Petersburg.

RUSS 3341 (3). RUSSIAN READING AND CONVERSATION. Continuation of RUSS 2341.

RUSS 3351 (3). RUSSIAN SYNTAX AND COMPOSITION. Continuation of RUSS 2351.

RUSS 3361 (3). COMPARATIVE GRAMMAR. For students who are fully bilingual in Russian and English. Provides a practical analysis of the similarities and differences between the two languages. Includes special problems of native speakers of Russian speaking English, translation in both directions, weekly compositions and translations, and essay exams. *Prerequisite:* 16 hours of Russian by examination.

RUSS 3362 (3). COMPARATIVE GRAMMAR. For students who are fully bilingual in Russian and English. Provides a practical analysis of the similarities and differences between the two languages. Includes special problems of native speakers of Russian speaking English, translation in both directions, weekly compositions and translations, and essay exams. *Prerequisite:* RUSS 3361 or permission of area chair.

RUSS 4185 (1). INTERNSHIP IN RUSSIAN. Offers 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 3.000 or higher; GPA in Russian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

RUSS 4285 (2). INTERNSHIP IN RUSSIAN. Offers 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 3.000 or higher; GPA in Russian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

RUSS 4301 (3). ADVANCED CONVERSATION. A term in Moscow or St. Petersburg.

RUSS 4302 (3). ADVANCED PHONETICS. A term in Moscow or St. Petersburg.

RUSS 4311 (3). ADVANCED READINGS IN RUSSIAN LITERATURE I. *Prerequisite*s or corequisites: RUSS 3341 and 3351, or permission of instructor.

RUSS 4312 (3). ADVANCED READINGS IN RUSSIAN LITERATURE II. *Prerequisite:* RUSS 4311 or permission of instructor.

RUSS 4313 (3). ADVANCED COMPOSITION. A term in Moscow or St. Petersburg.

RUSS 4314 (3). TRANSLATION. A term in Moscow or St. Petersburg.

RUSS 4380 (3). DIRECTED STUDIES. Independent study in Russian literature and culture, with selected topics, authors, and genres. *Prerequisite:* Permission of department.

RUSS 4381 (3). DIRECTED STUDIES. Independent study in Russian literature and culture, with selected topics, authors, and genres. *Prerequisite:* Permission of department.

RUSS 4385 (3). INTERNSHIP IN RUSSIAN. Offers 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 3.000 or higher; GPA in Russian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

Spanish

Bachelor of Arts With a Major in Spanish

The Spanish major has three tracks, for non-native, heritage and native speakers of Spanish. The distinction between heritage and native speakers is described on the Spanish page ("FAQs" tab) of the Dedman College website at smu.edu/dedman. Courses are selected in consultation with the major adviser. Study abroad in a Spanish-speaking country is strongly recommended.

Track for Heritage Speakers. Heritage speakers must replace SPAN 3358 with SPAN 4358. From the second category below, they may select SPAN 3373, 3374, 3375 or 4355.

Track for Native Speakers. Native speakers will start coursework at the 4000 level. In consultation with the area chair, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with 4357 or 4395.

Required Courses	*Credit Hours*
SPAN 3358 (*or* 4358)	3
One from SPAN 3310, 3311, 3312, 3313, 3355 (or 4355), 3373, 3374, 3375	3
SPAN 4357	3
SPAN 4395	3
Four or more 5000-level literature and linguistics courses (at least one in Peninsular literature, one in Spanish-American literature, and one in linguistics)	12
Two Electives	6
	30

Minor in Spanish

The Spanish minor has three tracks, for non-native, heritage and native speakers of Spanish. The distinction between heritage and native speakers is described on the Spanish page ("FAQs" tab) of the Dedman College website at smu.edu/dedman. Non-native speakers may take SPAN 3355 before 3358 and may take SPAN 3311, 3312 or 3313 concurrently with 3358.

Track for Heritage Speakers. Heritage speakers must replace SPAN 3358 with SPAN 4358. From the second category below, they may select SPAN 3373, 3374, 3375 or 4355.

Track for Native Speakers. Native speakers will start coursework at the 4000 level. In consultation with the area chair, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with 4357 or 4395.

Required Courses	*Credit Hours*
SPAN 2302 *or* equivalent	3
SPAN 3358 (*or* 4358)	3
One from SPAN 3310, 3311, 3312, 3313, 3355 (or 4355), 3373, 3374, 3375	3
Three additional advanced courses	9
	18

Spanish Courses (SPAN)

All courses are conducted in Spanish.

Advanced Courses in Linguistics	SPAN 5340, 5341, 5342, 5343
Advanced Courses in Peninsular Literature	SPAN 5310, 5311, 5315, 5320, 5321, 5323, 5334, 5335, 5361, 5364, 5365, 5370
Advanced Courses in Spanish-American Literature	SPAN 5315, 5316, 5317, 5336, 5337, 5338, 5339, 5370, 5375

SPAN 1401 (4). BEGINNING SPANISH I. Develops insight into the interconnectedness of the fundamentals of language and their application to communication. Provides rudimentary linguistic skills (vocabulary and grammar) and an acquaintance with the Spanish-speaking world – tools that allow further study of Hispanic cultures. Focuses on the four linguistic skills (listening, speaking, reading, and writing). Each course is comprised of a fundamentals module (MWF) and an applications (TTH) module. Enrollment is required in both. Reserved for students who have no previous Spanish experience or who have 2 years or less of Spanish. *Prerequisite:* An approved placement exam score or approval of WLL adviser.

SPAN 1402 (4). BEGINNING SPANISH II. Develops insight into the interconnectedness of the fundamentals of language and their application to communication. Provides rudimentary linguistic skills (vocabulary and grammar) and an acquaintance with the Spanish-speaking world – tools that allow further study of Hispanic cultures. Focuses on the four linguistic skills (listening, speaking, reading, and writing). Each course is comprised of a fundamentals module (MWF) and an applications (TTH) module. Enrollment is required in both. Reserved for students who have no previous Spanish experience or who have 2 years or less of Spanish. A student may not receive credit for both SPAN 1402 and SPAN 1502. *Prerequisite:* C- or better in SPAN 1401, an approved placement exam score, or approval of WLL adviser.

SPAN 1502 (5). BEGINNING SPANISH WITH INTENSIVE REVIEW (TERM II). Provides an intensive review of the first term of Spanish. Designed for students who have had Spanish previously but are not ready for SPAN 1402. To varying degrees, attention is devoted to all four linguistic skills (listening, speaking, reading, and writing). A student may not receive credit for both SPAN 1402 and SPAN 1502.

SPAN 2302 (3). INTERMEDIATE SPANISH II. For students who are comfortable using Spanish in all timeframes (past, present, future) but who need to improve overall fluency and to fine tune grammatical details. Focuses on the development of oral and written expression and significant vocabulary expansion, and their application to authentic social contexts and cultural situations. *Prerequisite:* C- or better in SPAN 2401 or equivalent.

SPAN 2311 (3). INTERMEDIATE SPANISH I. For students who are relatively comfortable expressing their personal needs and describing their immediate environment in Spanish. Moves students toward fluency through significant vocabulary expansion and mastery of advanced verbal and sentence structure. To varying degrees, attention is devoted to cultural competence and to the four linguistic skills (listening, speaking, reading, and writing). *Prerequisite:* C- or better in SPAN 1402 or equivalent. (SMU Abroad)

SPAN 2312 (3). INTERMEDIATE SPANISH II. For students who are comfortable using Spanish in all timeframes (past, present, future) but who need to improve overall fluency and to fine tune grammatical details. Focuses on the development of oral and written expression and

significant vocabulary expansion, and their application to authentic social contexts and cultural situations. *Prerequisite:* C- or better in SPAN 2401 or equivalent. (SMU Abroad)

SPAN 2401 (4). INTERMEDIATE SPANISH I. For students who are relatively comfortable expressing their personal needs and describing their immediate environment in Spanish. Moves students toward fluency through significant vocabulary expansion and mastery of advanced verbal and sentence structure. To varying degrees, attention is devoted to cultural competence and to the four linguistic skills (listening, speaking, reading, and writing). *Prerequisite:* C- or better in SPAN 1402 or equivalent.

SPAN 3310 (3). READINGS IN SPANISH AND SPANISH-AMERICAN LITERATURE. Refinement of oral and written proficiency based on reading, discussion, and production of literary texts. *Prerequisites:* SPAN 3358 and C- or better in SPAN 2302 or 2312. Not for heritage or native speakers of Spanish.

SPAN 3311 (3). CULTURAL DIALOGUES: SPAIN. Students improve linguistic proficiency by surveying Spanish Peninsular culture and history. Course content varies and may cover topics such as Peninsular film, music, or art. *Prerequisite:* C- or better in SPAN 2302 or 2312. *Prerequisite or corequisite:* SPAN 3358. Not for heritage or native speakers of Spanish.

SPAN 3312 (3). CULTURAL DIALOGUES: MEXICO. Students improve their linguistic proficiency by surveying Mexican culture and history. Course content varies; may include Mexican film, music, art, etc. *Prerequisite:* C- or better in SPAN 2302 or 2312. *Prerequisite or corequisite:* SPAN 3358. Not for heritage or native speakers of Spanish.

SPAN 3313 (3). CULTURAL DIALOGUES: LATIN AMERICA. Improves linguistic proficiency by surveying Latin American culture and history. Course content varies; may include topics such as Latin American film, music, and art. *Prerequisite:* C- or better in SPAN 2302 or 2312. *Prerequisite or corequisite:* SPAN 3358. Not for heritage or native speakers of Spanish.

SPAN 3321 (3). SPECIAL TOPICS ABROAD IN SPANISH. Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 3322 (3). SPECIAL TOPICS ABROAD IN SPANISH. Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 3355 (3). SPANISH CONVERSATION. An advanced course for majors and nonmajors intended to increase active command of the language. *Prerequisite:* C- or better in SPAN 2302 or 2312. Not for heritage or native speakers of Spanish.

SPAN 3358 (3). ADVANCED SPANISH. By acquiring grammar through culture, students prepare for effective oral and written communication in Spanish. *Prerequisite:* C- or better in 2302 or 2312. Not for heritage or native speakers of Spanish; heritage speakers should take SPAN 4358.

SPAN 3373 (3). TOPICS IN SPANISH CIVILIZATION. A topical exploration of Spanish-American culture and societies, with particular emphasis on artistic and sociological aspects. The topic explored varies by instructor. *Prerequisite:* SPAN 4358 (or can be taken concurrently) or C- or better in SPAN 3358.

SPAN 3374 (3). TOPICS IN SPANISH-AMERICAN CIVILIZATION. A topical exploration of Spanish-American culture and societies, with particular emphasis on artistic and sociological aspects. The topic explored varies by instructor. *Prerequisite:* SPAN 4358 (or can be taken concurrently) or C- or better in SPAN 3358.

SPAN 3375 (3). TOPICS IN SPANISH-SPEAKING COMMUNITIES IN THE UNITED STATES. A survey of social and cultural issues surrounding Spanish-speaking communities in the U.S. that highlights selected topics. *Prerequisite:* SPAN 4358 (or can be taken concurrently) or C- or better in SPAN 3358.

SPAN 4321 (3). SPECIAL TOPICS ABROAD IN SPANISH. Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 4322 (3). SPECIAL TOPICS ABROAD IN SPANISH. Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 4352 (3). 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. Includes fieldwork and contact hours in the classroom. Aimed at improving oral and listening skills of non-native speakers of Spanish. *Prerequisite:* C- or better in SPAN 3358 or 4358.

SPAN 4355 (3). CULTURE AND COMMUNICATION FOR SPANISH SPEAKERS. An advanced course intended primarily for bilingual students whose home language is Spanish but whose dominant intellectual language is English. Because of its emphasis on cultural readings and communication skills, the course if suitable for native speakers who would like to broaden their knowledge of the language, Hispanic culture, and the major Hispanic groups in the U.S. *Prerequisite:* C- or better in SPAN 4358. Not for non-native speakers of Spanish; non-native speakers should take SPAN 3355.

SPAN 4357 (3). INTRODUCTION TO SPANISH LINGUISTICS. What is language? How do languages function? How is human language different from other communication systems? This course focuses on Spanish and also explores language acquisition, language contact, and bilingualism. *Prerequisites:* C- or better in SPAN 3358/4358 and one of the following: SPAN 3310, 3311, 3312, 3313, 3355/4355, 3373, 3374, or 3375.

SPAN 4358 (3). ADVANCED SPANISH FOR HISPANIC SPEAKERS. Specifically designed for Spanish-English bilingual students who learned Spanish at home in the U.S. and who have oral proficiency but little or no formal training. Students reactivate their Spanish and develop it further to learn more about their language and cultural heritage, to acquire Spanish literacy skills, and to develop or expand their Spanish academic language skills. Non-native speakers of Spanish take SPAN 3358; native speakers of Spanish take SPAN 4357 or 4395. *Prerequisite:* Placement test.

SPAN 4385 (3). INTERNSHIP IN SPANISH. Offers 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 3.000 or higher; GPA in Spanish of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

SPAN 4391 (3). COMMERCIAL SPANISH FOR INTERNATIONAL TRADE. An advanced course in Spanish for international trade and communication. *Prerequisites:* Permission of instructor or C- or better in SPAN 3358/4358 and one of the following: SPAN 3310, 3311, 3312, 3313, 3355/4355, 3373, 3374, or 3375.

SPAN 4395 (3). INTRODUCTION TO HISPANIC LITERATURE. A study of the tools necessary for analysis and understanding of literature, and the application of these tools through the reading of Hispanic texts. *Prerequisites:* C- or better in SPAN 3358/4358 and one of the following: SPAN 3310, 3311, 3312, 3313, 3355/4355, 3373, 3374, or 3375.

SPAN 4396 (3). LEADERSHIP AND ETHICS IN LITERATURE. Examines the intersection between leadership and ethics in selected literary texts and explores leadership in a variety of settings such as business, civic and political engagement, and education.

SPAN 5310 (3). 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.

SPAN 5311 (3). SPANISH LITERATURE SINCE 1700. Major writers and movements from 1700 to the present. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5315 (3). SPANISH-AMERICAN LITERATURE TO 1888. Literary figures and trends from the Spanish conquest to modernism. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5316 (3). SPANISH-AMERICAN LITERATURE SINCE 1888. Literary figures and trends from modernism to the present. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5320 (3). THE RENAISSANCE AND GOLDEN AGE: DRAMA. A study of the early development of Spanish drama and of the flourishing of the theatre with Lope de Vega and Calderon de la Barca, and their contemporaries. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5321 (3). 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 and Zayas, their contemporaries, and their literary predecessors. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5323 (3). 19TH-CENTURY PROSE FICTION. 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.

SPAN 5325 (3). 20TH-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, and post-modernism). *Prerequisite:* C- or better in SPAN 4395.

SPAN 5326 (3). SPECIAL TOPICS ABROAD IN SPANISH. Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 5327 (3). SPECIAL TOPICS ABROAD IN SPANISH. Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 5334 (3). THE NOVEL, POST-CIVIL WAR. The development of the novel and short story in Spain from 1940 to the present. Readings from Cela, Delibes, Sanchez Ferlosio, Goytisolo, etc. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5335 (3). GENRE STUDIES (SPAIN). A study of the evolution of contemporary Spanish theatre within the context of dominant historical, social, and cultural trends. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5336 (3). SPANISH-AMERICAN NOVEL. Study of the Spanish-American novel through analysis of works from the 19th, 20th, and/or 21st centuries. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5337 (3). SPANISH-AMERICAN ESSAY. Students analyze essays from the 19th, 20th, and/or 21st centuries to explore key intellectual debates of Spanish America around topics such as race, gender, politics, history, and relations with the U.S. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5338 (3). SPANISH-AMERICAN SHORT STORY. Study of the Spanish-American short story through analysis of works from the 19th, 20th, and/or 21st centuries. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5339 (3). SPANISH-AMERICAN POETRY. Major Spanish-American poets, with emphasis on the 20th century: Octavio Paz, Nicolas Guillen, Gabriela Mistral, Pablo Neruda, and others. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5340 (3). THE STRUCTURE OF SPANISH. Explanation 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.

SPAN 5341 (3). SPANISH PHONETICS AND PHONOLOGY. Survey of phonetic (acoustic, physical) and phonological (distributional) properties of the Spanish sound system, and comparison with the English sound system. Introduces phonologically conditioned dialectal variation in the Spanish-speaking world. *Prerequisite:* C- or better in SPAN 4357.

SPAN 5342 (3). LINGUISTIC VARIATION IN THE SPANISH-SPEAKING WORLD. Introduction to language change and a panoramic overview of regionally and socially conditioned linguistic variation in Peninsular and Latin American Spanish, including topics such as language contact and bilingualism. *Prerequisite:* C- or better in 4357.

SPAN 5343 (3). SPANISH AS A SECOND LANGUAGE: PRINCIPLES OF SECOND-LANGUAGE ACQUISITION AND TEACHING. Provides a background in issues pertaining to the acquisition of Spanish as a second language and addresses how findings from Spanish second-language acquisition research are applicable to the teaching of Spanish. *Prerequisite:* C- or better in SPAN 4357.

SPAN 5361 (3). DON QUIXOTE: THE IDEA, THE CHARACTER, THE BOOK. An exploration of Cervantes' masterpiece "Don Quixote" and its influence on art and society. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5364 (3). HUMAN RIGHTS ISSUES IN CONTEMPORARY SPANISH LITERATURE. A study of human rights issues such as repression, torture, violence against women and the disabled, children's rights, genocide, and immigration as represented in contemporary Spanish literature. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5365 (3). CONTEMPORARY SPANISH WOMEN WRITERS. This course explores constructions of gender and identity in contemporary Spanish literature by women. Written texts, music, film, and documentary combine to offer multiple perspectives on the subject. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5370 (3). REWRITING DISCOVERY AND EXPLORATION IN THE SPANISH BORDERLANDS. An examination of shifts in the articulation of discovery and exploration in writ-

ings treating the northern frontier of New Spain during the mid-to-late 16th century. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5375 (3). CONTEMPORARY FICTION BY LATIN AMERICAN WOMEN WRITERS. Explores constructions of gender and identity in 20th-century fiction by Latin American women. Examines novels, short stories, film, and critical texts. *Prerequisite:* C- or better in SPAN 4395.

SPAN 5380 (3). 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.

SPAN 5381 (3). 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.

World Languages

Bachelor of Arts With a Major in World Languages

The Bachelor of Arts in World Languages allows students to specialize in two languages. Students choose one primary language (Chinese, French, German, Italian or Spanish) and one secondary language. Students must complete 6 more hours in the primary language than the secondary language for a total of at least 23 hours of course work beyond the first-year sequence in the primary language and at least 17 hours in the secondary language.

Primary Language

Bachelor of Arts With a Major in World Languages: Chinese

Required Courses	*Credit Hours*
CHIN 2401, 2402 Two from CHIN 3311, 3312, 4381, 4382	14
Three from the following: CHIN 4380, 4381, 4382, 4385 HIST 3393, 3395, 3398 RELI 3377, 3378 WL 3310, 3312, 3325, 3395, 3397, 3398	9
	23

Bachelor of Arts With a Major in World Languages: French

Required Courses	*Credit Hours*
FREN 2401 *or* equivalent	4
FREN 2302, 3101, 3356, 4370 *or* 4375	10
Three 4000- *or* 5000-level FREN courses	9
	23

Bachelor of Arts With a Major in World Languages: German

Required Courses	*Credit Hours*
GERM 2311, 2312, 3311	9
Five advanced GERM courses approved by adviser	15
	24

Bachelor of Arts With a Major in World Languages: Italian

Required Courses	*Credit Hours*
ITAL 2401, 2402, 3355, and 3357 *or* 3373	14
Three 4000-level ITAL courses approved by adviser	9
	23

Bachelor of Arts With a Major in World Languages: Spanish

Required Courses	*Credit Hours*
SPAN 2302 *or* equivalent	3
SPAN 3358 (*or* 4358)	3
One from SPAN 3310, 3311, 3312, 3313, 3355 (or 4355), 3373, 3374, 3375	3
Five additional advanced courses	15
	24

Secondary Language

Arabic

Required Courses	*Credit Hours*
ARBC 2301, 2302, 3301, 3302 or equivalents	12
Two from the following, with at least one 3000-level or higher: ANTH 3359 ARBC 4312 ARHS 3354, 3392 (CFA 3313) HIST 2355, 2379, 3323, 3326 (CF 3310), 3371, 3389, 3390, 3396, 4325 PLSC 3345, 4340 RELI 3329, 3362 WL 3355 (CFB 3304)	6
	18

Chinese

Required Courses	*Credit Hours*
CHIN 2401, 2402	8
Two from CHIN 3311, 3312, 4381, 4382	6
One from the following: CHIN 4380, 4381, 4382, 4385 HIST 3393, 3395, 3398 RELI 3377, 3378 WL 3310, 3312, 3325, 3395, 3397, 3398	3
	17

French

Required Courses	*Credit Hours*
FREN 2401 *or* equivalent	4
FREN 2302, 3101, 3356, 4370 *or* 4375	10
One 4000- *or* 5000-level FREN courses	3
	17

German

Required Courses	*Credit Hours*
GERM 2311, 2312, 3311	9
Three advanced GERM courses approved by adviser	9
	18

Italian

Required Courses	*Credit Hours*
ITAL 2401, 2402, 3355, and 3357 *or* 3373	14
One 4000-level ITAL courses approved by adviser	3
	17

Japanese

Required Courses	*Credit Hours*
JAPN 2401, 2402, 3311, 3312	14
One from the following:	3
ARHS 3394 FILM 3359 HIST 3395 JAPN 4381 PLSC 3346 WL 3398	
	17

Latin

Required Courses	*Credit Hours*
LATN 2311, 2312, or equivalent	6
Three from LATN 3323, 3324, 3325, 3326, 3327	9
One from the following: ARHS 1303, 3310, 3311, 3313, 3315, 3316, 4310, 5304, 5305 CLAS 2311, 2332, 3312 ENGL 2371, 3382 HIST 2350, 2351, 2352, 2353, 2354, 3350, 3353, 3354, 3355, 3356, 3361, 5380 LATN 3323, 3324, 3325, 3326, 3327 PHIL 3351 RELI 1304, 3348, 3352, 3371	3
	18

Russian

Required Courses	*Credit Hours*
RUSS 2341, 2351	6
One from RUSS 3323, 3351, 3361, 3362	3
RUSS 3341, 3302 *or* RUSS 3304 and one supporting course	6
One from the list below: HIST 3340, 3341, 5367 PLSC 3351, 3358, 3359 (CFA 3359), 3365, 4358, 4384 WL 3323	3
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Spanish

Required Courses	*Credit Hours*
SPAN 2302 *or* equivalent	3
SPAN 3358 (*or* 4358)	3
One from SPAN 3310, 3311, 3312, 3313, 3355 (or 4355), 3373, 3374, 3375	3
Three additional advanced courses	9
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Linguistics and World Literatures and Languages

The Courses (WL/WLAN)

All WL/WLAN courses are conducted in English.

Chinese Culture and Literature	WL 3310, 3312, 3325, 3395
Francophone Cultures	WL 3361 (SMU-in-Paris only), 3365, 3366 (Electives that do not count toward the French major.)
German Culture	WL 3321, 3322, 4321, 4322, 5326
Italian Culture and Literature	WL 2201, 2395, 3390 (FILM 3390), 3391–94
Russian Culture	WL 2343, 3323 (HIST 2323)
Spanish Culture and Literature	WL 3303, 3305, 3306
Spanish Linguistics	WL 3308

WL 2201 (2). ITALY TODAY: CONTEMPORARY ITALIAN CULTURE AND INSTITUTIONS. Overview of contemporary Italian society, institutions, and traditions, from the role of the Church to the fashion industry. *Prerequisite*s or corequisites: ITAL 1401, 1402, or 2401 and instructor approval.

WL 2343 (3). AFTER COMMUNISM. Examines changes in Russian and East European culture since the mid-1980s, when openness and restructuring prepared the ground for the fall of the Soviet Union.

WL 2395 (3). 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.

WL 3301 (3). SPANISH CULTURE AND THOUGHT. Significant aspects of Spanish culture are presented and illustrated by examples from Spain's history, music, art, architecture, literature folklore, and contemporary life.

WL 3302 (3). ETHNOVIOLENCE: INTERDISCIPLINARY PERSPECTIVES. An introduction to ethnoviolence (violence or the threat of violence based on one's race, ethnicity, religion, gender, or sexual orientation) from a comparative, global, and critical framework that synthesizes sociology; colonial studies; communications; and ethnic, religious, historical, and gender studies.

WL 3303 (3). TOPICS IN SPANISH CIVILIZATION. A topical exploration of Spanish culture and society, with particular emphasis on artistic and sociological aspects. The topic explored varies by instructor.

WL 3306 (3). CHICANO CULTURAL HERITAGE. A study of the Chicano/mestizo cultural identity in the Southwest. Includes readings from selected contemporary authors as well as from the early recorded contacts between Native Americans and their European conquerors.

WL 3307 (3). THE BELLE ÉPOQUE. Through a series of lectures, readings, and visits, the course presents an in-depth study of society, culture, art, and literature in Paris and in the provinces. (SMU-in-Paris)

WL 3308 (3). 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.

WL 3309 (3). FRENCH CINEMA: 1945 TO THE PRESENT. Uses cultural studies theory to explore the evolution of the French national identity from the end of the Nazi occupation of France in 1945 to the present day.

WL 3310 (3). TRANSNATIONAL CHINESE CINEMA. Introduces 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 learn to understand non-Western cultural texts and to analyze cinematic representations.

WL 3312 (3). WOMEN IN MODERN CHINA. Critical examination, from literary and gender perspectives, of the lives and roles of the 20th century Chinese women, including works from major women writers.

WL 3320 (3). POSTWAR JAPAN: CULTURE AND SOCIETY. Students gain a critical knowledge of postwar Japanese society and culture by examining issues that have shaped contemporary Japan from the perspectives of such disciplines as history, sociology, anthropology, and cultural studies, including literary works and films.

WL 3322 (3). MODERN JAPANESE NOVELS IN TRANSLATION. Students study a number of Japanese novels, from Shimazaki Toson's "The Broken Commandment" (1906) to Yoshimoto Banana's "Kitchen" (1988). Each student is required to give a talk on at least one novel, which may be developed into the essay that is a major component of assessment. Students' presentation and participation in the discussion in class, together with short critical comments on other students' talks, form the basis for continuous assessment.

WL 3323 (3). 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.

WL 3325 (3). PERSPECTIVE ON MODERN CHINA. Survey of China in the 20th century in terms of cultural trends, literature, and cinema. Stresses the interactions between reality and representation, between author and reader and/or audience, and between text and interpretation. Emphasizes close reading of texts or viewing of films, followed by critical analysis.

WL 3330 (3). 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.

WL 3331 (3). SURVEY: RUSSIAN LITERATURE IN TRANSLATION. Russian literature from the 18th century to the present. Works by Tolstoy, Dostoevsky, Chekhov, Solzhenitsyn, and others.

WL 3332 (3). SPECIAL TOPICS: RUSSIAN LITERATURE IN TRANSLATION. Texts, periods, and thematic and critical approaches vary from term to term.

WL 3340 (3). 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.

WL 3341 (3). THE FAILURE OF HUMANITY IN RWANDA. An introduction to 1994 Rwanda genocide that seeks to understand not only its origins but also its sociological, ethical, and human rights implications.

WL 3349 (3). 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. The course explores links between literature and politics, literature and history, and thought and action in 20th-century Africa and the Caribbean. Readings and lectures are supplemented by class discussion, films, and videotapes about the Caribbean and Africa.

WL 3350 (3). EXISTENTIALISM AND LITERATURE. Existentialist perspectives on society, individual responsibility, politics, and war as presented in key literary texts by Kierkegaard, Dostoevsky, Malraux, Sarte, Camus, Ellison, and others.

WL 3351 (3). INTRODUCTION TO MEDIA LITERACY: SEMIOTICS AND CURRENT CULTURAL MYTHS. Students learn how to decode a variety of verbal and nonverbal languages in mass media such as advertising, journalism, and entertainment TV. Focus is on the values (ideology) these discourses convey.

WL 3355 (3). TRADITION, COMMUNITY, AND IDENTITY IN AFRICAN CINEMA. Uses cultural studies theory to explore evolutions of African identity (individual, collective, and national) in the postcolonial period.

WL 3359 (3). 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.

WL 3360 (3). 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.

WL 3362 (3). POSTCOLONIAL FRANCE. A multidisciplinary course providing an introduction to, or better understanding of, some of the most passionate debates on assimilation, difference, and multiculturalism that have emerged in France in recent years.

WL 3363 (3). 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.

WL 3365 (3). SPECIAL TOPICS FRENCH LITERATURE IN TRANSLATION. Texts, periods, and thematic and critical approaches will vary from term to term.

WL 3369 (3). 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.

WL 3370 (3). 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.

WL 3379 (3). GERMAN CULTURE IN WEIMAR. Traces German culture using Weimar, Germany as the location to study literature, music, and film in their historical context beginning in

Goethe's Weimar, through the Weimar Republic, and concluding with National Socialism and the recent Unification.

WL 3380 (3). CLASSICAL LATIN LITERATURE IN TRANSLATION.

WL 3390 (3). 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.

WL 3391 (3). ITALIAN LITERATURE IN TRANSLATION: THE ITALIAN NOVEL. A close reading of five representative works. While the novels are considered in light of historical events, students give special attention to form and rhetoric in order to understand the novel's unique ability to express and create reality.

WL 3392 (3). ITALIAN LITERATURE IN TRANSLATION: EARLY HUMANISM. The course defines and characterizes the major aspects of 14th-century humanism by exploring the seminal works of Petrarch, Boccaccio, Salutati, Valla, and others.

WL 3393 (3). DANTE'S POETIC VISION. Students read "Inferno" and "Purgatory" in English translation and explore the cultural and poetic values that reflect a specific world vision strongly conditioned by religious and political philosophy.

WL 3394 (3). BOCCACCIO'S DECAMERON AND MEDIEVAL STORYTELLING. Students read stories from the Decameron in English translation along with such narrative predecessors as the Roman exempla, hagiography, monks' tales, sermons, and the bawdy French tales known as the fabliaux.

WL 3395 (3). A CULTURAL JOURNEY TO CHINA. Suzhou, in China's cultural heartland, hosts this course on the development of Chinese culture: religion, literature, cinema, art, architecture, and history. Trips complement readings centered on self, family, and state.

WL 3396 (3). LEADERSHIP AND ETHICS IN LITERATURE. Examines the intersection between leadership and ethics in selected literary texts and explores leadership in a variety of settings such as business, civic and political engagement, and education.

WL 3397 (3). 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.

WL 3398 (3). 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.

WL 4185 (1). INTERNSHIP: WORLD LANGUAGES. Offers experience in organizations where knowledge of a foreign language and/or the culture of the language communities is relevant. *Prerequisites:* Rising sophomore, junior, or senior standing; an overall GPA of 3.000 or higher; and sponsorship of the organization, agency, or corporation. *Corequisite:* Beginning or intermediate world language course that is relevant to the internship.

WL 4285 (2). INTERNSHIP: WORLD LANGUAGES. Offers experience in organizations where knowledge of a foreign language and/or the culture of the language communities is relevant. *Prerequisites:* Rising sophomore, junior, or senior standing; an overall GPA of 3.000 or higher; and sponsorship of the organization, agency, or corporation. *Corequisite:* Beginning or intermediate world language course that is relevant to the internship.

WL 4385 (3). INTERNSHIP: WORLD LANGUAGE. Offers experience in organizations where knowledge of a foreign language and/or the culture of the language communities is relevant. *Prerequisites:* Rising sophomore, junior, or senior standing; an overall GPA of 3.000 or higher; and sponsorship of the organization, agency, or corporation. *Corequisite:* Beginning or intermediate world language course that is relevant to the internship.

WLAN 1301 (3). BEGINNING LANGUAGE (LANGUAGES NOT TAUGHT AT SMU). Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Three classes a week. For SMU Abroad students only.

WLAN 1302 (3). BEGINNING LANGUAGE TERM TWO. Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Three classes a week. *Prerequisite:* C- or better in WLAN 1301 (same language) or permission of program director. For SMU Abroad students only.

WLAN 1401 (4). BEGINNING LANGUAGE TERM ONE (LANGUAGES NOT TAUGHT AT SMU). Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes a week. For SMU Abroad students only.

WLAN 1402 (4). BEGINNING LANGUAGE TERM TWO. Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes a week. *Prerequisite:* C- or better in WLAN 1401 (same language) or permission of the program director. For SMU Abroad students only.

WLAN 3311 (3). SPECIAL TOPICS ABROAD IN WORLD LANGUAGES. Courses in SMU-approved international programs. Prior departmental approval required.

WLAN 3313 (3). SPECIAL TOPICS ABROAD IN WORLD LANGUAGES. Courses in SMU-approved international programs. Prior departmental approval required.