

DEDMAN COLLEGE

GENERAL INFORMATION

students, those students matriculated into the College of Arts and Sciences, the academic unit that would eventually become Dedman College. In 1963, with the formation 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. The 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 humanities, social sciences and natural sciences. As an indication of its central role in 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. In 2012, some 1,400 undergraduate students majored in Dedman College programs, and the school enrolled just under 350 graduate students. More than 270 full-time faculty 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	Environmental Sciences	Public Policy
Health and Society	Environmental Studies	Religious Studies
Biochemistry	(Ethnic Studies)	Sociology
Biological Sciences	African/African-Amer Studies	Markets and Culture
Chemistry	Mexican-American Studies	Statistical Science
(Earth Sciences)	History	World Lang/Literatures
Geology	Human Rights	World Languages: French
Geophysics	Individualized Studies	World Languages: German
Resource Geology	in the Liberal Arts	World Languages: Italian
Economics	International Studies	World Languages: Spanish
Financial Applications	Mathematics	World Languages: Spanish
Mgmt Info Applications	Medieval Studies	French
Mgmt Info Systems	Philosophy	German
English	Physics	Spanish
English With Creative	Political Science	
Writing	Psychology	

Minors available include the following:

Anthropology

Archaeological

Biomedical

Cultural

Biological Sciences

English

(Ethnic Studies)

African-American Studies

Mexican-American Studies

History

Psychology

Religious Studies

Sociology

Statistical Science

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:

- B Credit-bearing internships are supervised by faculty, department or program.
Note: Noncredit-bearing internships are without faculty, department or program supervision. These may be paid or unpaid internships. Internship orientation is strongly suggested. Students may be asked to sign a Release of Liability for some internships.
- B Dedman Internship Program Orientation and Standardized University Release of Liability for Education Internship are required for credit bearing internships.
- B 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.
- B If a student has obtained an internship that qualifies toward possible credit in Dedman College and also qualifies toward possible credit in another SMU school, and if the student chooses to earn internship credit in that school, the student will not be allowed to use the same internship experienced toward credit in Dedman College.
- B Internships require a written component based on and reflective of the experiential dimension.
- B Internship credit is available only through approved internship courses.
- B Internship credit may range from one to three hours.
- B 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

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 term credit hours taken in approved SMU Abroad programs may be counted toward the degree requirements in Dedman College. Additional term 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.

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 within 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 desc

Credits

A candidate for a degree in Dedman College must have

BA minimum total of 122 term hours of credit, including the Universitywide requirements and the requirements for a major. Within this 122 hours are the following:

BA minimum total of 42 advanced hours (3000 level or above).

BA two hours of Personal Responsibility and Wellness.

BA maximum total of three hours of internship credit.

Grades

A candidate for a degree in Dedman College must attain

BA minimum cumulative GPA of 2.000 on all work attempted through enrollment at SMU.

BA minimum cumulative GPA of 2.000 including all equivalent transfer work attempted elsewhere, if any.

BA minimum grade of C- on any advanced course offered in fulfillment of major or minor requirements.

BA minimum cumulative GPA of 2.000 for all work attempted for completion of major or minor requirements.

BA 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 hours as SMU credit through SMU courses or SMU-approved international programs:

BA total of 60 hours.

BA total of 18 hours of advanced work in the major.

BA 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 Universitywide requirements. However, a student may not pursue multiple programs in the same department 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:

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) .

ANTHROPOLOGY

www.smu.edu/anthro

Professor Karen Lupo, Department Chair

Professors: Eric G. Bing, Caroline Brettell, Karen Lupo, David Meltzer, Ben Wallace, Ronald Wetherington. Associate Professors: Michael Adler, Sunday Eiselt, Victoria Lockwood, Carolyn Smith-Morris. Assistant Professors: Brigitte Kovacevich, Nia Parson, Christopher Roos. Professor of Practice: Kacy Hollenback. Emeritus Professors: Anthony E. Marks, Ladislav Novak, Garth Sampson, Fred Wendorf, David J. Wilson.

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 the 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 achieve a minimum 2.000 GPA in anthropology and should consult their departmental adviser periodically to review their progress.

Bachelor of Arts With a Major in Anthropology

The B.A. degree is intended for students who desire general training in anthropology within a liberal arts curriculum. Of the required term hours of anthropology, 21 term hours must be advanced.

Requirements for the Major	Credit Hours
ANTH 2301, 3361	6
One course from the archaeology minor course list	3
One course from	

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.

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 school must consult with the prehealth professions adviser for further information and course requirements.

Requirements for the Major	Credit Hours
Foundation and Capstone Courses	16
ANTH 2301, or PSYC 1300, or SOCI 1300 ANTH/SOCI 3301 or	

Track 2: Social and Cultural Emphasis (continued)

Elective courses (13 hours for the B.A., 22 for the B.S.)

chosen from the following: 11T5(ing)-725.CoeqD0 Tw ()Tj /TT6 1 Tff 7.5 0 -29.11973-a

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 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)	
ANTH 2302, or 2363, or 2380	
Three courses chosen from the following:	
ANTH 3304, 3312, 3313, 3315, 3318, 3319, 3334, 3351,	
3356, 3365, 3374, 3384, 3388, 3390, 3399, 4300,	
4325, 4333, 4346, 4385, 4386, 5310, 5355	
Biomedical Anthropology (15 credit hours)	
ANTH 3306 or 5336	
Four courses chosen from the following:	
ANTH 3301, 3303, 3306, 3328, 3345, 3348, 3350, 3351,	
4303, 4307, 4343, 4344, 5310, 5336	
PHIL 3376	
PSYC 3360	
RELI 3366	
WGST 2380	
Cultural Anthropology (12 credit hours)	
Two courses chosen from the following:	
ANTH 3301, 3303, 3305, 3306, 3310, 3319, 3327, 3328,	
3329, 3333, 3336, 3344, 3345, 3348, 3350, 3361, 3366,	
3368, 3385, 3388, 4304, 4305, 4306, 4309, 4344,	
4384, 5336, 5344	
Two courses chosen from the following:	
ANTH 3309, 3311, 3313, 3314, 3316, 3317, 3323, 3353,	
3354, 3355, 3358, 3359, 3376	
General Anthropology (12 credit hours)	
ANTH 3361	
One course chosen from the archaeology track (above)	
One course from the cultural anthropology track (above)	
One course chosen from the following:	

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 4399, 5334, 5335
Archaeology	ANTH 2302, 2363, 2380, 3304, 3312, 3313, 3315, 3318, 3319, 3334, 3351, 3356, 3365, 3374, 3384, 3388, 3390, 3399, 4300, 4325, 4333, 4377, 4385, 4386, 5355, 5381, 5382, 5681
Cultural/Social Anthropology	ANTH 2301, 3301, 3303, 3305, 3306, 3309, 3310, 3311, 3313, 3314, 3316, 3317, 3323, 3327, 3328, 3329, 3333, 3336, 3344, 3345, 3346, 3348, 3350, 3353, 3354, 3355, 3358, 3359, 3365, 3366, 3368, 3376, 3385, 3388, 4303, 4304, 4305, 4306, 4307, 4309, 4343, 4344, 4346, 4384, 4386, 5336, 5344

altered states of consciousness, and psychological terrorism are analyzed in 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 3305 (3). THE OTHER IN AMERICA: POPULAR PERCEPTIONS AND GOVERNMENT POLICY THROUGH TIME. An examination of attitudes toward others in America during the past 200 years, as reflected in popular culture (films and fiction) and in national and local government policies.

ANTH 3327/CF 3319 (3). CULTURE CHANGE AND GLOBALIZATION: SOCIAL SCIENCE PERSPECTIVES. Introduction to anthropological perspectives on global transformations: world economic integration; economic development and sociocultural change; new patterns of hunger, poverty, and disease; ethnic resurgence and nationalism; migration and transnationalism; the expansion of global religions and fundamentalist movements; and changes in gender and family patterns.

ANTH 3328/WGST 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/HRTS 3329 (3). CONTESTING DEVELOPMENT: GLOBAL AND LOCAL IMPACTS AND HUMAN RIGHTS. Examines the highly variable (g4cb36h)57(dh)118(pad)04.6(t)-1.5(shS8(of)

ANTH 3348/CFB 3348/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.

ANTH 3350/CFA 3350 (3). GOOD EATS AND FORBIDDEN FLESH: CULTURE, FOOD, AND THE GLOBAL GROCERY MARKET. A cultural perspective on food that blends biological and mermination about human nutrition and development with an exploration of the global market of eating. Prerequisites: Advanced standing and AN(3.2(T)6.8(H)11(2)10.7(3)3.9(01, o)7.2(r) causes of death.

ANTH 3353 (3). INDIANS OF NORTH AMERICA. A survey of American-Indian and Eskimo

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.

molecular biology), and what that reconstruction

- 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). COASTAL AND AQUATIC ARCHAEOLOGY. Seminar on the use of coastlines, oceans, rivers, marshes, lakes, and lands throughout human history. Prerequisite: ANTH 2302 or 2363, or permission of instructor.
- ANTH 4386 (3). THE ARCHAEOLOGY OF GENDER AND SEXUALITY. This course explores how and why archaeologists study gender and sexual identities of the past and how they detect the diversity in these institutions across cultures 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). SENIOR SEMINAR IN ANTHROPOLOGY. An in-depth examination of current theoretical and methodological developments in the discipline. Recommended for candidates for departmental distinction in anthropology. Prerequisites: Senior standing or permission of instructor and ANTH 2301.
- 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. Prerequisite:

BIOLOGICAL SCIENCES

www.smu.edu/biology

Professor Santosh D'Mello, Department Chair

Professors: Christine Buchanan, Richard Jones, Paul Ludden, William Orr, John Ubelaker, Steven Vik, Pia Vogel
 Associate Professors: Robert Harrod, John Wise.
 Assistant Professor: Johannes Bauer. Professor of Practice: Bianca Batista.
 Senior Lecturer: Eva Oberdörster. Lecturer: Teresa Strecker.
 Emeritus Professors: John McCarthy, Lawrence S. Ruben, Franklin Sogandares-Bernal.

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 courseone at the 4000 or 5000 level	
Chemistry	16
CHEM 3371/3117 CHEM 3372/3118 At least 8 hours of additional CHEM courses	
Mathematics	6
MATH 1337 MATH 1338 or STAT 2331 or 5371	
Physics	8
Selected from general physics courses	
	64

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

This degree program is designed for students with a strong interest in a research career. It is a five-year plan that results in both the B.S. and M.S. degrees. Admission to the program is by petition during the spring term of the second year. A research mentor must be identified, and a minimum 3.200 GPA in science courses is required. The Department Graduate Committee will evaluate interested applicants. Tuition support is provided in the fifth year, and stipend support is provided for summer research and throughout the fifth year. Students in the program must be engaged in research year-round and will enroll in BIOL 2101, 2102 in the third year. All of the B.S. degree requirements must be completed and include the following courses: BIOL 3304, 3350, 3398, 3399, 5304, 5310 or 5311, 5110. The requirements for the M.S. degree will be met in years four and five. During year four, students will complete BIOL 6121, 6122, 6310, and 6322. During year five, students will typically

research credits to total 15 hours in each term of the fifth year. To remain in the program, students will maintain a 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
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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.

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 and 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/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.

BIOL 3308 (3). BIOLOGY OF MARINE MAMMALS.

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 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/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.

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 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 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:

and lipid chemistry. Includes 3 hours of lecture each week. Prerequisites: BIOL 1401, 1402; CHEM 3371, 3372. 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.

BIOL 5311/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 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/CHEM 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 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/GEOL 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

Core Courses

19

CHEM 1303/1113, 1304/1114, 3371/3117, 3372/3118,
5381 or 5383

ing 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.

and lipid chemistry. Includes 3 hours of lecture per week. Prerequisites: CHEM 3371, 3372. If CHEM 5310 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

CHEM 5311/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 per week. Prerequisites: CHEM 3371, 3372.

CHEM 5312/BIOL 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,

EARTH SCIENCES

www.smu.edu/earthsciences

Professor Robert Gregory, Department Chair

Professors: Robert 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. Emeritus Professors: David Blackwell, Lee McAlester.

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.

The department offers a Bachelor of Science degree in Earth Sciences, a Master of Science degree in Earth Sciences, and a Ph.D. in Earth Sciences. The department also offers a variety of courses in geology, geophysics, and environmental science. The department is a member of the Society for Environmental Geologists and the Geological Society of America. The department is also a member of the International Association of Geologists and the International Association of Geophysicists. The department is also a member of the International Association of Environmental Geologists and the International Association of Environmental Geophysicists. The department is also a member of the International Association of Geologists and the International Association of Geophysicists. The department is also a member of the International Association of Environmental Geologists and the International Association of Environmental Geophysicists.

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 103 (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	
	36–39

Notes

- B 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.
- B 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
	<hr/>
	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

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

B 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 Courses (GEOL)

GEOL 1100 (1). EARTH SCIENCES ABROAD.

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. Ex amples of planned trips include the Caribbean, Hawaii, the Grand Canyon, Lake Superior in Canada, New Mexico, or ColoradoPrerequisites: 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/BIOLOG 3307 (3). ECOLOGY. Basic principles and concepts of ecology, with em-

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

3340.

GEOL 5110 (1). INDEPENDENT STUDY IN GEOSCIENCE.
topic in geoscience. Individual study under di

Independent study of a selected

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.

Intro-

ECONOMICS

www.smu.edu/economics

Professor Santanu Roy, Department Chair

Professors: Nathan Balke, Raveendra Batra, Rajat Deb, Tom Fomby, Kathy Hayes, Atsushi Inoue, Daniel Millimet, Santanu Roy, Tim Salmon, Shlomo Weber. Associate Professors: Bo Chen, Thomas Osang, Saltuk Ozerturk. Assistant Professors: Anna Kormilitsina, James Lake, Omer Ozak, Danila Serra. Senior Lecturers: Helen Reynolds, Elizabeth Wheaton. Emeritus Professors: William R. Russell, Daniel J. Slottje.

Students majoring in economics may choose among four degree plans. Under each degree plan, students are expected to take ECO 1311 and 1312 and MATH 1309 or 1337 during the first or second year. 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. Once the major is declared, due progress must be made in terms of course enrollment. If requirements change, the catalog in force at the time the major is declared prevails.

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; no substitutions are allowed.

Requ4.5Ay1rt1.001

Requirements for the Major	Credit Hours
Economics ECO 1311, 1312, 3301, 3302	12
Mathematics and Statistics MATH 1337, 1338 and one from STAT 2301, 2331, 4340	9
Advanced Electives (at least 6 hours at the 5000 level or above)	24
At least one of the approved fields listed below must be satisfied by the advanced economics courses selected.	
Eight from ECO 3355, 4301, 4351, 4357, 4358, 4361, 4365, 4368, 4371, 4376, 4378, 4382, 4385, 4386, 4390, 4395, 4396, 4397, 4398, 4399, 5301, 5320, 5340, 5341, 5342, 5350, 5353, 5357, 5359, 5360, 5361, 5362, 5365, 5370, 5375, 5380, 5385, 5390 (Note: only two can be from ECO 4390, 4395–99)	
	45

Major in Economics With Financial 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. Economics

Major in Economics With Management Information Applications

This 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, 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	

macroeconomic interactions among national economies and international systematic adjustments expected from market disturbances and shifting government policies. Students evaluate

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, seniostanding, 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

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 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/STAT 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 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 pr

ENGLISH

www.smu.edu/english

Associate Professor Nina Schwartz, Department Chair

Professors: Timothy Crusius, Dennis Foster (Director of Graduate Studies), Ezra Greenspan, David Haynes (Director of Creative Writing), Ross Murfin, Jasper Neel, Willard Spiegelman, Steven Weisenburger. Associate Professors: Richard Bozorth, Darryl Dickson-Carr, Michael Holahan, Beth Newman, Timothy Rosendale (Director of Undergraduate Studies), Lisa Siraganian, Nina Schwartz, Rajani Sudan, Bonnie Wheeler. Assistant Professors: Angela Ards, Greg Brownderville, Timothy Cassidy, Daniel Moss, Jayson Gonzales Sae-Saue, Martha Satz. Professors of Practice: Joan Arbery, Cara Diaconoff, Andrea Hamilton. Senior Lecturers: Diana Grumbles Blackman (Director of Discernment and Discourse), Carolyn Channell, Jo Goyne, Pamela Lange, Bruce Levy, Tom Stone. Lecturers: Marta Harvell, Vanessa Hopper, Pauline Newton, Kristen Polster, Ona Seaney, Sam Ross Sloan, Lori Ann Stephens, Vicki Tongate. Emeritus Professors: John Lewis, C.W. Smith, Marshall Terry.

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-level

Requirements for the Major	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 (c. pre-1500)	
Early Modern Literature (c. 1500–1775)	
Literature in the Age of Revolutions (c. 1775–1900)	
Modern to Contemporary Literature (c. 1900–present)	
Criticism and Theory	3
ENGL 3310 or 4310	
Major Electives	12
	33

Notes

B The following courses are not acceptable as major electives: DISC 1311, 1312, 1313, 2305, 2311, 2312 and 2315.

B 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	

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 pro-

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 3329/MDVL 3329/CF 3302 (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

tions 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/CF 3370/WGST 3370 (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. 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 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, James Hopkins, Alexis McCrossen, Daniel Orlovsky, Sherry Smith, Kathleen Wellman. Associate Professors: Sabri Ates, Crista DeLuzio, Melissa Dowling, Jeffrey Engel, Kenneth Hamilton, Thomas Knock, John Mears. Assistant Professors: Erin R. Hochman, Jill E. Kelly, Ada-Maria Kuskowski, Ling Shiao. Adjunct Assistant Professor:

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-

- 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 2318/CFB 3318 (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/CFB 3320/WL 3323 (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/CF 3392 (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 interdisciplinary

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. c 296 - TONCD EGYPT.

- 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/CF 3318 (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/CF 3309 (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/CF 3320 (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/CFB 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/CF 3311 (3). HISTORY OF SEX IN AMERICA. This course will test the hypothesis that gender and sexuality are constructed categories. Readings in anthropology, history,

- HIST 3321 (3). THE AMERICAN SOUTHWEST. History of the American Southwest, from the initial penetration in 1821 to the present.
- HIST 3322/CFB 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/CFB 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/CF 3310 (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 1900 TO THE PRESENT. Surveys the history of American women from 1900 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/CF 3322 (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/CF 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/CF 3366 (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/CFB 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

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/CFB 3383 (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/CF 3394 (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/CFA 3348 (3). AMERICAN FAMILIES: CHANGING EXPERIENCES AND EXPECTATIONS. Explores changes in American family life from the Colonial period to the

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). SEARCHING FOR THE AMERICAN DREAM: U.S. IMMIGRATION AND MIGRATION. Focuses on American identity through the history of immigration and migration. Topics include the slave trade; European, Asian, and Latin-American immigration; the Overland Trail; illegal immigration; and the melting pot.

HIST 3363/CF 3306 (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 17th to the late 18th century.

- HIST 3376/CF 3314 (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/CFA 3325 (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). HABSBERG 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). SOCIAL ACTION IN URBAN AMERICA. An examination of the historical development of social action in

- HIST 3392/CF 3349/WL 3349 (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/CF 3336 (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/CF 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/CFA 3345 (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 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 investiga-

INTERDISCIPLINARY PROGRAMS AND COURSES

Program Directors: Pamela Corley (Law and Legal Reasoning), Melissa Dowling (Classical Studies), Rick Halperin (Human Rights), Kenneth Hamilton (Ethnic Studies), Dennis Ippolito (Public Policy), Peter K. Moore (Individualized Studies in the Liberal Arts), Beth Newman (Women's and Gender Studies), William C. Orr (Natural Sciences), Steven Vik (Biochemistry), John Walther (Environmental Science, Environmental Studies), Stephen K. Wegren (International and Area Studies), Bonnie Wheeler (Medieval Studies). Senior Lecturer: Josephine Caldwell-Ryan (Women's and Gender Studies).

Bachelor of Science With a Major in Biochemistry

www.smu.edu/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

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 Biolog

Bachelor of Science With a Major

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

65–68

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.

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 Paleocology
- GEOL 5384 Hydrogeology
- STAT 3380 Environmental Statistics
- STAT 5371, 5371 Experimental Statistics I, II

Social Sciences (minimum of 3 credit hours)

- ANTH 3319 Human Ecology
- ANTH 3374 Cultures and Environments of the Southwest

The Courses (ENST)

ENST 1100 (1). ENVIRONMENTAL STUDIES ABROAD.
international programs. Prior departmental appr

Courses offered in SMU-approved

Bachelor of Arts With a Major in Ethnic Studies

The ethnic studies major is an interdisciplinary program that examines African-

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/

Public Policy and Human Rights Track (continued)

ANTH 3353	Indians of North America
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 4309	Human Rights, Indigenous Peoples, and Nation States
ENGL 3383	Literary Executions
HIST 3312	Women in American History
HIST 3317	Women in Latin-American Societies
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
HIST 5340	Seminar: Women's Rights in the United States
MNO 3375	Corporate Social Responsibility and Ethical Leadership
PHIL 3371	

Electives

9

Three courses from at least two departments, with at least 3 hours at the 3000 level or above.

Any ANTH course from track 1 or 2 above.

ANTH 3301 Health, Healing, and Ethics

ANTH 3311 Mexico: From Conquest to Cancun

ANTH 4305 Applied Anthropology

ARHS 1338 Chicano Art and the Politics of Place

ARHS 3334 The Look of Freedom

ARHS 4349 Why We Go to Auschwitz

ENGL 1365 Literature of Minorities

ENGL 3367 Ethical Implications of Children's Literature

ENGL 3383 Literary Executions

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

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

General Information

The individualized studies major 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 (214-768-2168). 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 term 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 term hours, with a minimum of 24 term hours of advanced courses (3000 level or above). The program must satisfy all Universitywide requirements and all of her 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

- 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), DCAR 4301 (3), DC AR 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.

Bachelor of Arts With a Major in International Studies

www.smu.edu/internationalstudies

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 and Africa.

As an alternative to the international studies major, a student may choose an area

Basic Curriculum

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At least two courses must be 3000 level or above.

Introduction to World Cultures (select one)

- ANTH 2301 Introductory Cultural Anthropology
- HIST 1302

Regional Specialization

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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
- 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 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)

Social Sciences

European Studies

- ANTH 3355 Society/Culture in Contemporary Europe
 ANTH 3355 Nationalism, Europe
 (SMU-in-Copenhagen)
 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,
 1900–1930
 HIST 3341 Soviet and Post-Soviet Society and Politics,
 1917–Present
 HIST 3343 20th-Century European History
 (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 French Revolution/Napoleon, 1789–1815
 HIST 5373 Europe: Bismarck to WWI, 1870–1918
 HIST 5374 Recent European History, 1918–Present

Social Sciences

European Studies (continued)

- 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
 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 C 4384 Filic 4(e)1.1(1eo)5.5(af U)3.i(e)-1.o.8(o)n

Humanities and Arts

Humanities and Arts

European Studies (continued)

- 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)
- ARHS 3362 Picturing Children: European Art 1848–1940
- ARHS 3364

Humanities and Arts

Latin-American and Iberian Studies (continued)

SPAN 5365 Contemporary Spanish Women Writers

SPAN 5370 Rewriting Discovery and Exploration in the
Spanish BorderlandsSPAN 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

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INTL 4388 Seminar: International

ing 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

B Up to 12 hours of world language study may be taken in an SMU-approved study

For the International Studies Minor

- B 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.
- B 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

- B 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.
- B 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.

The Courses (INTL)

INTL 4302 (3). DIRECTED READINGS IN INTERNATIONAL STUDIES. Students develop and execute independent reading or research projects under the guidance of an International Studies faculty member, culminating in a written report. Prerequisites: Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

INTL 4306 (3). INTERNSHIP IN INTERNATIONAL STUDIES. Undergraduate students who arrange for part-time or full-time jobs in fields related to international studies connect these experiences to their academic curriculum through research and writing, under the guidance of an International Studies faculty member. Prerequisites: Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced preparation.

INTL 4307 (3). DEPARTMENTAL DISTINCTION THESIS. Candidates for departmental distinction write a thesis under the direction of an International Studies faculty member, culminating in an oral examination over the field of the thesis. Prerequisite: Admission to departmental honors candidacy.

INTL 4388 (3). SEMINAR: INTERNATIONAL GOVERNMENT AND POLITICS. Senior seminar required for all international studies majors that students with an opportunity to integrate their studies. The topic is thematic and varies depending upon the instructor.

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

Bachelor of Arts With a Major in Medieval Studies

www.smu.edu/medievalstudies

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,

Art History and Music History (continued)

ARHS 3399	Medieval Jewish-Christian Dialogue in Art/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: 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	Dir5(i)-/TT6 124 TD 2.5(ST 3)6.27E44U -1.SnTJ /TThST 3ST 3

Literature (continued)

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-3n .00133.8239 -1.232wi

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 3350 Cell Biology	3
CHEM 1303/1113, 1304/1114 General Chemistry	8
CHEM 3371/3117, 3372/3118 Organic Chemistry	8
BIOL 3306 Physiology (Prerequisite: BIOL 3350) or BIOL 3304 Genetics	3
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Bachelor of Arts With a Major in Public Policy

The public policy major is an interdisciplinary program in economics and political

Minor in Women's and Gender Studies

www.smu.edu/womgenstudies

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
Three WGST or non-WGST program-approved courses at the 3000 level or above	9
One non-WGST program-approved course	3
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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

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	

Requirements for the Major (continued)	Credit Hours
Program-approved courses (continued)	
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)	
One additional WGST or non-WGST program-approved course	3

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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

WGST 3381/CF 3381 (3). MODERN MYTH-MAKING. The quest for enduring cultural heroes
and the projection of changing social messages as reflected in art

MATHEMATICS

www.smu.edu/math

Professor Douglas Reinelt, Department Chair

Professors: Alejandro Aceves, Vladimir Ajaev, Richard Haberman, Thomas Hagstrom, 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, Scott Norris, Benno Rumpf. Senior Lecturers: Adriana Aceves, Judy Newell. Lecturer: Carol Seets. Emeritus Professors: Robert Davis, Ian Gladwell, Mogens Melander, Montie Monzingo, George Reddien, Lawrence Shampine, Richard Williams.

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

MATH 1304/MATH 1303 (3). PRECALCULUS MATHEMATICS. Graphs, functions, basic analytic geometry, exponentials, logarithms, trigonometry, and inverse functions. Prerequisites: High school algebra and trigonometry. 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. Algebra from the viewpoint of the elementary curriculum and problem-solving are emphasized throughout the course. Prerequisite or corequisite: EDU 2350.

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/MATH 1337 (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/MATH 1309 (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/MATH 1340 (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/MATH 1338 (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 Ma-3.4(i)-4.4L32 Tm -.00009 Tc .10903 Tc1(i)1.1(t)5.+8age82rTc1(i)1H

war and terrorism, and world hunger. Class discussion is an important component of the course, as is reading and writing argumentative essays about these issues.

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/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.

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 su

phy occur in this period; the course provides an introduction to, and background for, these areas. Examines key writings from major figures on issues such as rationalism and empiricism; the nature of external reality and one's knowledge of it; the existence and nature of God; the

PHIL 3376 (3). BIOETHICS. An examination of ethical questions arising within medical practice, medical research, and the life sciences.

PHIL 3377 (3). ANIMAL RIGHTS. Examines the moral status of nonhuman animals and its implications for the common use of animals as food and experimental subjects for humans.

PHIL 3379 (3). ENVIRONMENTAL ETHICS. Explores society's ethical obligations concerning the natural world. Topical issues like climate change, endangered species, recycling, and the population explosion are covered from a variety of philosophical perspectives.

PHIL 3380 (3). ETHICAL THEORY. An examination of the more fundamental – and more abstract – questions in philosophical ethics. Topics vary, but the following are representative. What is the good life: in what does human happiness or well-being consist? What is truly worth valuing: are pleasure, knowledge, and virtue valuable in themselves? What are the basic principles that determine or govern moral rights and obligations? Are moral judgments descriptions of some features of the world, or are they merely expressions of approval and disapproval? If they are descriptions of the world, what features of it do they describe? How does one know whether an action is morally right or wrong? Students explore questions like these through a close and critical examination of classic and contemporary works in philosophical ethics.

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., pragmatism), historical figures (e.g., Dewey), or influential contemporary figures (e.g., Quine).

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

Professor Fred Olness, Department Chair

Professors: Fred Olness, Ryszard Stroynowski, Jingbo Ye. Associate Professors:

Physics

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PHYS 1303/PHYS 1403 (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/PHYS 1404/PHYS 1308/PHYS 1408 (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/PHYS 1407 (3). GENERAL PHYSICS I. For life sciences majors. Covers vector kinematics, Newtonian mechanics, gravitation, rotational motion, vibrations, waves, and fluids.

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. Prerequisites 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/CFB 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 Lagrangian mechanics. Prerequisites: PHYS 1303 and MATH 2339 (or taken concurrently).

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 differen-

tial equations, special functions, Fourier series and integral transformations, integral equations, calculus of variations, and applications. Prerequisites: MATH 2339, 2343.
PHYS 4375 (3). RESEARCH.

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: Bradley Carter, Pamela Corley, Joseph Kobyłka, Luigi Manzetti, Joshua Rovner, Dennis Simon, Hiroki Takeuchi, Matthew Wilson. Assistant Professor:

must include at least six hours (two courses) in each of two distribution fields and three hours (one course) in a third. 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):

B A minimum of 15 hours of in-class advanced-level courses must be taken on an

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

PLSC 3342/PLSC 4342 (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/PLSC 4358 (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/CFA 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 3365/PLSC 4365 (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/CFA 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/CF 3303 (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). Prerequisites: Two courses in political science, at least one

at the upper level, that are relevant to the selected program. Available for political science, public policy, or international studies majors or minors.

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

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 4398 (3). NUCLEAR WEAPONS AND WORLD POLITICS.

ronmental, response, and task variables; and the evaluation and treatment of addiction. Prerequisites: PSYC 1300, 3382 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 3382, 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 3382, 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 3382, 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, 3341, and 3382, 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 3382, 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 3382, 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,

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RELIGIOUS STUDIES

Professor Carl Johan Elverskog, Department Chair

Professors: William Barnard, Mark Chancey, Charles Curran, Carl Johan Elverskog, Serge Frolov. Associate Professors: Richard Cogley, Jill DeTemple, Kate Carté Engel, John Lamoreaux, Steven Lindquist.

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
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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 Courses (RELI)

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 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/CF 3356 (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/CFA 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/CFA 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

include creation myths, culture heroes, trickste

SOCIOLOGY

www.smu.edu/sociology

Associate Professor Sheri Kunovich, Chair, Markets and Culture Director

Professor: Anthony Cortese. Associate Professor: Anne E. Lincoln. Assistant Professor: Matthew R. Keller. Senior Lecturer: Debra Branch. Lecturers: Nancy Campbell-Jeffrey, Leslie DeArman. Emeritus Professors: Richard Hawkins, Linda Brewster Stearns.

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, including fields as market research, public administration, policy analysis, social work, nonprofit management and education.

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 with youths at risk, the elderly or people experiencing problems related to poverty or substance abuse. In the government sector, sociology majors often work in policy analysis, program evaluation or urban planning.

The Department of Sociology offers threemajors 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

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. Only one independent study course (SOCI 4393 or 4396) may be taken for a grade and applied toward the major. General internship courses (SOCI 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

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. Prerequisite: First-year, sophomore, or junior standing only.

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 23.22s and recultur-4.;(s h)9-1.9(.9(8-5.5(9.8)8-4.7(o110.7)6-3.7(p)5.9(8-5.1)6-3.5(9.p(o119.8(a))TJ

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. Prerequisites: Sociology majors, markets and culture majors, or sociology minors only; C- or better in SOCI 3311.

SOCI 3320/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. 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

level) that are relevant to the selected program, and permission of department chair. Available for markets and culture majors or sociology majors and minors.

SOCI 4403 (4). WASHINGTON TERM. Intensive study of domestic and international economic, political, and social institutions. Includes a 4-hour research project (SOCI 4401), a 4-hour internship (SOCI 4402), and an 8-hour seminar (SOCI 4403, 4404). Prerequisites: Two courses in the markets and culture major, sociology major, or sociology minor (at least one at the upper level) that are relevant to the selected program, and permission of department chair. Available for markets and culture majors or sociology majors and minors.

SOCI 4404 (4). WASHINGTON TERM. Intensive study of domestic and international economic, political, and social institutions. Includes a 4-hour research project (SOCI 4401), a 4-hour internship (SOCI 4402), and an 8-hour seminar (SOCI 4403, 4404). Prerequisites: Two courses in the markets and culture major, sociology major, or sociology minor (at least one at the upper level) that are relevant to the selected program, and permission of department chair. Available for markets and culture majors or sociology majors and minors.

STATISTICAL SCIENCE

www.smu.edu/statistics

Professor Wayne Woodward, Department Chair

Professors: Ronald Butler, Richard Gunst, Lynne Stokes, Wayne Woodward.
Associate Professors: Jing Cao, Ian Harris, Monnie McGee, Hon Keung Ng, Sherry Wang. Assistant Professor: Cornelis Potgieter. Senior Lecturers: Alan Elliot, Stephen Robertson. Emeritus Professors: Narayan Bhat, Henry Gray, Chandrakant Kapadia, Campbell Read, William Schucany.

General Information

Statistics is the science of collecting, analyzing and interpreting data. The science of statistics is applicable in every setting where decisions are to be made or knowledge is to be advanced based on the analysis of data. Application fields include almost every academic discipline, including business, engineering and the natural and social sciences. Selecting the best medical treatment for a particular form of cancer, determining whether to use sampling methods to augment a census, and evaluating temperature trends for evidence of greenhouse-induced climate change are diverse examples of settings in which statistical science has made important contributions. Because of its interdisciplinary nature, statistical science is an exciting and valuable double major or minor.

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	24
MATH 1337, 1338, 2339	
STAT 5304, 5371, 5372, 5373, 5374	
Electives	18
Choose at least 9 hours from the following:	
STAT 3312, 4385, 5350, (or ECO 5350), 5370, 5375,	
5377, (or EMIS 5377), 5380 (or ECO 5385)	
8((ECO 5350), 5370, 5375,)Tj -14.0a6u.9(g)109g6 1 3)-5 0 0 4 5	

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.

Requirements for the Minor	Credit Hours
STAT 5304, 5371, 5372	9
At least one from STAT 3312, 3370, 4340, 4385, 5377; PSYC 336	3–6
At most one from STAT 1301, 2301, 2331; ITOM 2305	0–3
	15

The Courses (STAT)

STAT 1301 (3). INTRODUCTION TO STATISTICS. Introduction to collecting observations and measurements, organizing data, variability, and fundamental concepts and principles of decision-making. Emphasis is placed on statistical reasoning and the uses and misuses of statistics.

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/CSE 4340/EMIS 3340 (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 chi-square, t, and F tests.

ing 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/EMIS 7364/EMIS 5364 (3). STATISTICAL QUALITY CONTROL.

WORLD LANGUAGES AND LITERATURES

www.smu.edu/worldlanguages

Associate Professor Marie-Luise Gäettens, Department Chair

ARABIC: Senior Lecturer: Liljana Elverskog. CHINESE: Lecturers: Gwen Chen, Yan Xia. FRENCH: Associate Professor: Dayna Oscherwitz. Assistant Professor: Hervé Tchumkam. Senior Lecturers: Gwen Aaron, Paola Buckley, Heather Garrett-Pelletier, Rita Winandy. Lecturers: Denis Bettaver, Martine Kincaid, Rachel Ney. GERMAN: Associate Professors: Gordon Birrell, Marie-Luise Gäettens. ITALIAN: Senior Lecturer: Teresa Brentegani. Lecturers: Brandy Alvarez, Damiano Bonuomo. Visiting Lecturer: Maria Patel. JAPANESE: Senior Lecturer: Keiko Flores. SPANISH: Professor: Denise DuPont. Associate Professors: Olga Colbert, Francisco Morán, Luis Maldonado-Peña, Alberto Pastor, Elizabeth Russ, Gabriela Vokic. Assistant Professors: Rubén Sánchez-Godoy, Alicia Zuesen. Senior Lecturers: Maria Eguez, Susana Fernandez-Sera, Verónica León, Betty Nelson. Lecturers: Miroslava Detcheva, Linda Koski, Leticia McDoniel, Angie Morón-

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.

Minors in World Languages

Academic minors are available in Arabic, Chinese, French, German, Italian, Italian area studies, Japanese, Latin, Ru

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 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.

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

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. 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.

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.

Required Courses	Credit Hours
FREN 2455, 3356, 4370	10
FREN 4375, 4371or 4372	6
Two 5000-level FREN courses	6
Electives: Two 4000- or 5000-level FREN courses	6
	28

Minor in French

Required Courses	Credit Hours
FREN 2401 or equivalent	4
FREN 2455, 3356, 4370or 4375	10
Two 4000-level FREN courses	6
	20

French Courses (FREN)

All courses are conducted in French.

Language Courses	FREN 1401, 1402, 2201, 2401, 2455, 3356, 4103, 4185, 4285, 4385, 4355, 4356, 4357
Literature and Culture Courses	FREN 4365, 4370–76, 4391, 5180, 5320, 5321, 5334, 5335, 5344, 5345, 5350, 5351, 5361, 5365–68, 5380, 5381

FREN 1101 (1), 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 4322 (3). SPECIAL TOPICS ABROAD IN FRENCH. Courses in SMU-approved international programs. Prior departmental approval required.

FREN 4355 (3). ADVANCED SPOKEN FRENCH. Focus on development of both oral and aural skills. Development of topic-specific vocabulary; readings and discussion of texts and commentaries on contemporary French society and culture; viewing and discussion of feature films. Prerequisites: C- or better in FREN 3455, 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. Prerequisites: C- or better in FREN 3455, 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. Prerequisites: C- or better in FREN 3455, 3356 or permission of area chair.

FREN 4365 (3). INTRODUCTION TO FRENCH CINEMA. An introduction to French cinema's major works, filmmakers, and trends with a continued emphasis on improvement of advanced French language skills. Prerequisites: C- or better in FREN 3455, 3356 or permission of instructor and 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. Prerequisites: C- or better in FREN 3355, 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). SURVEY OF LITERATURE IN FRENCH: FROM ROMANTICISM TO THE PRESENT. Overview of French and Francophone literary history from the beginning of the 19th century to the present day. Selection of texts from major dramatists, poets, and writers of prose fiction. Prerequisite: C- or better in FREN 4370 or permission of area chair.

FREN 4373 (3). FRENCH CIVILIZATION. The evolution of French society, with emphasis on cultural, artistic, and intellectual trends. Prerequisites:

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. Prerequisites: C- or better in FREN 3455, 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:

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, and major novels, short stories, television, and films from the postwar era to the present). Prerequisite: C- or better in GERM 3311 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, Jandt, 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:

Italian Courses (ITAL)

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.

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

LATN 2312 (3). SECOND-YEAR LATIN: SECOND TERM.
poetry (Caesar, Pliny, Ovid). Prerequisite:

Readings from Roman prose and

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 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 nativespeakers of Russian speaking English, translation in both directions, weekly compositions and translations, and essay exams Prerequisite:

Track for Native Speakers. Native speakers will start coursework at the 4000 level. Native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358.

Required Courses	Credit Hours
SPAN 3355 or equivalent (or 4355), 3358 (or 4358)	6
SPAN 4357, 4395	6
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

Heritage and native speakers of Spanish follow a special course track. The distinction between heritage and native speakers is described

Provides rudimentary linguistic skills (vocabulary and grammar) and an acquaintance with the Spanish-speaking world – tools that allow further study of the Hispanic culture. Attention is devoted to all four linguistic skills (listening, speaking, reading, and writing). Each course is comprised of a fundamentals (MWF) and an applications (TTH) module. Enrollment is required in both. Prerequisite: C- or better in SPAN 1401.

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).

SPAN 2302 (3). INTERMEDIATE SPANISH II. For students who are comfortable expressing the seven communicative functions (i.e., describing, comparing, reacting and recommending, narrating, discussing likes and dislikes, creating hypotheses, and talking about the future). Designed to move students toward

SPAN 3355 (3). SPANISH CONVERSATION. An advanced course for majors and nonmajors intended to increase active command of the language. Not for heritage or native speakers. Prerequisite: C- or better in SPAN 2302 or 2312.

SPAN 3358/SPAN 4358 (3). ADVANCED SPANISH. By acquiring grammar through culture, students prepare for effective oral and written communication in Spanish. Not for heritage or native speakers of Spanish; heritage speakers should take SPAN 4358. Prerequisite: C- or better in 2302 or 2312.

SPAN 3373/CFA 3330/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. Prerequisite: C- or better in SPAN 3358/4358 or equivalent.

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: C- or better in SPAN 3358/4358 or equivalent.

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: 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/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 field-work and contact hours in the classroom. Aimed at improving oral and listening skills of non-

Hispanic texts. Limited enrollment. Prerequisites:

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 lan-

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. Prerequisites 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/CFB 3350/SOCI 3350/COMM 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/CFA 3330/SPAN 3373 (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, cu

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/CFB 3304 (3). MIGRATION, OCCUPATION, AND INDEPENDENCE IN NORTH AFRICAN CINEMA. An introduction to the cinemas of

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.