

STUDENT AFFAIRS

The vice president for Student Affairs is charged with providing guidance, support services and a variety of programs and activities intended to complement the academic pursuits of students and to promote their development.

The mission of the Division of Student Affairs (www.smu.edu/studentaffairs/) is to develop, with others in the University, opportunities for students to become productive citizens through the creation of challenging environments that contribute to students' intellectual, spiritual, physical, social, cultural, moral and emotional growth, and, in so doing, engage them with the widest range of persons within the University and beyond. Throughout the Division of Student Affairs, students will encounter caring professionals who are trained and skilled in their own specialties and are professional educators dedicated to assisting students in developing their full potential. The focus of Student Affairs is one of education and guidance, not merely problem-solving. The role of the staff is, along with the faculty, to assist the student in reaching true maturity and to prepare the student to take a useful place in society.

Concern for and realization of the full development of each student in and out of the classroom constitutes one of the major goals of the University. Consequently, SMU's Student Affairs programs are designed to support and supplement SMU's formal academic work. Many departments exist to provide services for the benefit and convenience of SMU students. The Division of Student Affairs encompasses a broad range of programs and services dealing with housing and residential matters, physical and mental wellness, personal and career counseling and testing, recreational sports and intramurals, religious affairs, multicultural student programs, as well as judicial matters, new student orientation, leadership programs, volunteer opportunities and women's programs.

STUDENT LIFE

Student Life departments educate students and the SMU community by providing purposeful opportunities for learning, personal growth, clarifying values and developing skills that promote responsible citizenship. The Office of the Dean of Student Life (www.smu.edu/studentlife), located in Hughes-Trigg Student Center, is a resource for students to consult when they want general information and assistance or simply do not know where to ask a question. The dean serves as a primary liaison for students and parents who have concerns about any aspect of their SMU experience.

ACADEMIC INTEGRITY AND CODE OF CONDUCT

The Honor Code of Southern Methodist University

Intellectual integrity and academic honesty are fundamental to the processes of learning and of evaluating academic performance, and maintaining them is the responsibility of all members of an educational institution. The inculca-

tion of personal standards of honesty and integrity is a goal of education in all the disciplines of the University.

The faculty has the responsibility of encouraging and maintaining an atmosphere of academic honesty by being certain that students are aware of the value of it, that they understand the regulations defining it, and that they know the penalties for departing from it. The faculty should, as far as is reasonably possible, assist students in avoiding the temptation to cheat. Faculty members must be aware that permitting dishonesty is not open to personal choice. A professor or instructor who is unwilling to act upon offenses is an accessory with the student offender in deteriorating the integrity of the University.

Students must share the responsibility for creating and maintaining an atmosphere of honesty and integrity. Students should be aware that personal experience in completing assigned work is essential to learning. Permitting others to prepare their work, using published or unpublished summaries as a substitute for studying required material, or giving or receiving unauthorized assistance in the preparation of work to be submitted are directly contrary to the honest process of learning. Students who are aware that others in a course are cheating or otherwise acting dishonestly have the responsibility to inform the professor and/or bring an accusation to the Honor Council.

Students and faculty members must mutually share the knowledge that any dishonest practices permitted will make it more difficult for the honest students to be evaluated and graded fairly and will damage the integrity of the whole University. Students should recognize that both their own interest, and their integrity as individuals, will suffer if they condone dishonesty in others.

The Honor System

All students at SMU, with the exception of those enrolled in School of Law, Perkins School of Theology and Cox M.B.A. School, are subject to the jurisdiction of the Honor Code and as such will be required to sign a pledge to uphold the Honor Code (www.smu.edu/studentlife/). The Honor Council is composed of approximately 27 students selected through an application and interview process by the Honor Council Executive Board and five faculty members nominated by the Faculty Senate. The council's responsibility is to maintain and promote academic honesty.

Academic dishonesty is defined broadly as a student's misrepresentation of his or her academic work or of the circumstances under which that work is done. This includes plagiarism in all papers, projects, take-home exams, or any other assignments in which the student submits another's work as being his or her own. It also includes cheating on examinations, unauthorized access to test materials and/or assisting another student in gaining any unfair academic advantage. Lastly, it includes academic sabotage, defined as intentionally taking any action that negatively affects the academic work of another student. Failure to prevent or report academic dishonesty by another may be considered participation in a dishonest act.

Suspected cases of academic dishonesty may be handled administratively by the appropriate faculty member in whose class the alleged infraction occurred

or referred to the Honor Council for resolution. Suspected violations reported to the Honor Council by a student or by an instructor will be investigated and, if the evidence warrants, a hearing will be held by a board composed of five members of the Honor Council.

Any appeal of an action taken by the Honor Council shall be submitted to the University Judicial Council in writing no later than four calendar days (excluding school holidays) after notification of the Honor Council's decision.

Code of Conduct

The following are University procedures and standards with which every student must become familiar. The University considers matriculation at SMU an implicit covenant and a declaration of acceptance on the part of the student of all University regulations. Judicial Affairs (www.smu.edu/studentlife/), part of the Office of the Dean of Student Life, assists students in their personal development by providing a fair judicial system that issues consistent sanctions for behavior that is incongruent with the University's expectations for students.

Conduct. Standards of conduct are established through faculty, student and administrative efforts and are under continuous evaluation by the entire University community in order to assure reasonable and fair limits. At SMU, the student is assumed to have a high degree of loyalty and responsibility to the University and its well-being, as well as to himself or herself in personal, social and intellectual pursuits; the student's behavior both on and off campus is evidence of this.

Students at SMU will discover that they are encouraged to exercise a great amount of personal freedom as well as accompanying responsibilities. Through their personal capacities for intelligent thought and action, mature students understand that there are situations in which certain behavior must be modified for the benefit of others. The University stands firm in its commitments to the rights and freedoms of students, expecting in return the same respect and concern.

The University expects all students to be responsible citizens and to abide by all federal, state and local laws. Personal irresponsibility – including, but not limited to, that evidenced by dishonesty, gambling, hazing, irresponsible conduct and the misuse of drugs and alcohol – renders a student subject to disciplinary action. Although most specific regulations pertain to a student's behavior while on campus, a lack of personal responsibility and integrity is always considered grounds for discipline no matter where it occurs. Due respect for the entire University community, faculty, staff and one's fellow students is always expected.

Students are required to identify themselves when asked by a properly identified faculty or staff member, or by another student serving as a University staff member. Persons who are not members of the University community and without business on campus may be asked to leave.

Disciplinary Action. Clear disciplinary procedures are an important part of the mission of SMU as an educational institution. The intent of the system of

due process at SMU is to be educational and not merely punitive for students. The goal continues to be to produce quality citizens. It is pertinent to the purpose of discipline to remember that self-discipline is part of the entire educational process, whereby the student becomes more fully aware of the importance of responsibility for oneself and others. Anytime a student displays irresponsible behavior, that student will be subject to discipline.

The Office of Judicial Affairs assists students in their personal development by providing a fair judicial system that issues sanctions for behavior that is incongruent with the University's expectations for students. Depending on the degree of misconduct, a student may be subject to judicial sanctions ranging from a judicial reprimand to expulsion from the University. Should a student be asked to leave the University, he or she should do so in an expeditious and peaceful manner. The student should remain off campus until he or she receives written permission from the Dean of Student Life Office to return to campus. In the event of such separation, a student is still responsible for University financial obligations.

The University believes in student representation on all disciplinary bodies. To ensure fair due process for all students in the judicial process, the student is granted an impartial hearing and the right to appeal to the University Judicial Council. A student who is appealing a sanction may remain in school until the decision and penalty are reviewed, unless considered harmful to the University, to any individual or to himself or herself. All actions by the council are subject to presidential review.

Having voluntarily enrolled as students at Southern Methodist University and assumed a place in the University community, all students are presumed to be knowledgeable of, and have agreed to abide by, the rules and regulations set forth in the Student Code of Conduct, as outlined in the SMU Student Handbook. This book is available from the Dean of Student Life Office, third floor, Hughes-Trigg Student Center, or online at www.smu.edu/studentlife.

Loss of Personal Property. The University is not responsible for the loss of personal property belonging to students in any building or on any grounds owned by the University, whether the loss results from theft, fire or unknown cause.

SERVICES FOR STUDENTS WITH DISABILITIES

The office of Services for Students with Disabilities strives to support the educational, career, social and recreational choices of SMU students with documented disabilities through coordination of services and reasonable accommodations. It is the responsibility of the students themselves to establish eligibility for services or accommodations through this office. Students with disabilities are encouraged to contact this office at 214-768-4557 to learn what opportunities and services are available. It is recommended that this contact be made as early as possible so students can establish their eligibility for services in a timely fashion and take full advantage of services for which they may be eligible. For more information, visit our Web site: www.smu.edu/studentlife/OSSD_Facts.asp.

NEW STUDENT PROGRAMS

The Office of New Student Programs (www.smu.edu/newstudent) provides on-going programs and services that support new students and families in transition to SMU. Academic Advising, Registration and Orientation (AARO) takes place in May, July, August and January for all incoming students. The office also coordinates Mustang Corral, a three-day, off-campus orientation retreat, and the Encore Series, which provides ongoing programming to students during their first year at SMU.

STUDENT ACTIVITIES AND MULTICULTURAL STUDENT AFFAIRS

Involvement outside the classroom is a tradition at SMU. Research shows that students who get involved outside the classroom tend to be more successful during their college experience. The Department of Student Activities and Multicultural Student Affairs (SAMSA) provides over 180 extracurricular opportunities for SMU students through organizations and clubs. There are 37 academic and professional associations, nine campus programming councils, 11 community service coalitions, 29 fraternities and sororities, nine governing boards, 10 honor societies, 15 multicultural societies, three political organizations, 21 recreational athletic clubs, 24 religious organizations and 20 special-interest groups. SAMSA can also assist students in forming a new organization. Our staff is ready to assist and guide students in their out-of-classroom experience. Higher education professionals advise and support specific areas of involvement, including diversity, fraternity and sorority life, programming and governance while members of our support staff are available to answer student's day-to-day questions about getting involved.

The Student Activities and Multicultural Student Affairs Center

The center, located on the 3rd Floor of the Hughes-Trigg Student Center, is the hub of activity of all SMU student organizations. Permanent office space is provided for major campus-wide student groups. More than 180 campus organizations have their activities coordinated through this area. Many out-of-class programs planned and implemented by students are considered co-curricular in that they are designed to complement one's educational experience. The major groups sponsoring campus-wide programs are the Greek Councils, the Asian Council, Association of Black Students, College Hispanic American Students, Program Council and Student Foundation. These groups and their committees provide ample opportunity for students to become involved as leaders or participants.

Student Government

Through SMU's system of representative governance, students participate with faculty and administration in the University's decision-making process. The primary voice of students in this process is the student-elected Student Senate. *SMU Policies for Community Life*, the *SMU Student Handbook*, is compiled in conjunction with the Student Senate and contains the student code of rights and responsibilities.

Fraternities and Sororities

There are 13 national fraternities, 13 national sororities and one co-

educational Greek organization on campus. Formal recruitment activities are held at the beginning of the spring term each year. The governing bodies for these groups are the Interfraternity Council, the Multicultural Greek Council, the National Pan-Hellenic Council and the Panhellenic Council. Students must meet the requirements as indicated in the *SMU Student Handbook* - Student Code of Conduct section 5.2(b) - in order to join a fraternity or sorority. More details on fraternity and sorority recruitment are available from the Student Activities Center or at www.smugreeks.com

Eligibility Requirements

Campus activities and organizations are an integral part of the developmental experience for SMU students. Leadership skills and interpersonal, social and cultural enhancement are but some of the benefits associated with out-of-class participation. Accordingly, students who hold office in a student organization or represent the University as a member of a sponsored campus group (Mustang Band, University Choir, etc.) must be matriculated in a University degree-granting program and may not be on academic probation.

STUDENT CENTER

Hughes-Trigg Student Center

Hughes-Trigg Student Center (www.smu.edu/htrigg/) is the hub of student life at SMU, bringing together members of the University community with emphasis on the pursuit of educational programs, student activities and services. The center is fully wheelchair-accessible and features important services and resources to meet the daily needs of students, faculty, staff and visitors of the University. These include a 500-seat theater, a multipurpose ballroom, a 100-seat high-tech forum, 18 meeting rooms and the offices of various organizations and departments. In addition, the facility houses an art gallery, a 24-hour computer lab, a commuter lounge and several retail operations. Students may study in comfortable public lounge areas, snack or dine in the Mane Course, conduct small or large meetings, send faxes, practice piano or get the latest information on special events. Open from early morning until late evening, the center provides cultural, social and educational programs and resources to foster personal growth and enrich cultural, social, educational and recreational experiences. More than a building, Hughes-Trigg is "The center of the SMU community."

STUDENT MEDIA

The student newspaper, *The Daily Campus*, the student yearbook, *Rotunda*, and the Web sites, smudailycampus.com and smurotunda.com, are produced by SMU students under the auspices of Student Media Company, Inc., a nonprofit educational corporation legally and financially independent of SMU. The print edition of *The Daily Campus* is published Tuesday through Friday during the fall and spring terms and monthly during the summer, and the *Rotunda* yearbook delivers in late summer. The company also publishes The Directory of Students, Staff and Faculty.

VOLUNTEER PROGRAMS

The Office of Leadership and Community Involvement (www.smu.edu/lci/)

provides resources, training and opportunities that enable students, faculty and staff to work with community agencies in community outreach activities and experiential education. The office maintains a current listing of volunteer and service-learning opportunities and serves as a resource for student service organizations. Students gain leadership experience through SPARC (Students Promoting Awareness, Responsibility and Citizenship), which coordinates Community Service Day, Alternative Spring Break and Habitat for Humanity.

THE WOMEN'S CENTER

The Women's Center (www.smu.edu/womenscenter/) promotes, supports and empowers women on campus by designing educational programming and leadership training to increase awareness and understanding of diverse women's concerns and gender equity issues. Through its activities, the center advocates for a University environment that eliminates barriers, diminishes prejudice and bigotry, and extends a supportive climate to all. Student organizations and programs housed here include the Women's Interest Network, Campus YWCA, Women in Science and Engineering, Men With Integrity, and Spectrum, the gay, lesbian, bisexual, transgender, straight organization. Also housed in the Women's Center is the SMU Women's Symposium (www.smu.edu/womsym) in the series The Education of Women for Social and Political Leadership, established in 1966. The center provides an informal, homelike atmosphere where members of the SMU community can meet.

OFFICE OF THE CHAPLAIN AND UNIVERSITY MINISTRIES

The Office of the Chaplain and University Ministries (www.smu.edu/chaplain/) is responsible for the administration of religious life on campus. The chaplain is the pastor and minister to the University community and typically leads all-university services of worship during the year. These include the University Service of Memory, the Ash Wednesday Service, and occasional memorial services for members of the University community. Roman Catholic Mass is celebrated each Sunday in Perkins Chapel at 9 a.m. and 5 p.m. The chaplains are available for personal counseling with students, faculty and staff during office hours. There are 33 active religious life organizations for students. The Quiet Place, a setting for interfaith meditation, prayer and reflection, is open daily and is adjacent to the Office of the Chaplain in Hughes-Trigg Student Center. The Office of the Chaplain sponsors the annual SMU Civil Rights Pilgrimage Seminar Tour during Spring Break and the annual presentation of the Robert O. Cooper Peace and Justice Fellowship Award and Lecture.

HEGI FAMILY CAREER DEVELOPMENT CENTER

Services. The Hegi Family Career Development Center guides and encourages students and alumni in the development of skills necessary for lifelong career management in the evolving world of work. The Career Center provides a comprehensive set of services to assist each individual in the development of career plans and specific strategies leading to the desired employment goal.

Career Counseling. Individual appointments are available with counselors to offer assistance to identify careers related to interests, skills, values and

personality. Career assessments are administered to promote the exploration of career options. Counselors also assist with the implementation of career plans and the development of job search skills, materials and strategies.

Orientation and Registration. To fully utilize the services of the Hegi Family Career Development Center, including participation in campus recruiting and job referral programs, each student must complete the registration process. The first step in the registration process is to attend an orientation session. Through participation in the session, students will learn how to complete an online profile, upload their résumé and take advantage of all the job listing and campus recruiting services.

Workshops. Workshops offered by the Hegi Family Career Development Center include: Career Assessment – Find A Career That Is Right For You; Résumé Writing – Market Your Skills/Experience to Employers with Résumés and Cover Letters; Interviewing – How to Prepare, Dress and Present Yourself Before, During and After the Interview; Job Search Strategy and Networking – Devise a Plan and Make Contacts to Find the Job You Want; Salary/Offer Negotiation – Find Out What You’re Worth and How to Get It.

On-Campus Interviewing. Employers visit the campus to recruit students seeking professional and internship positions through the campus interview program. To interview with these organizations, students must attend a Career Services Orientation and complete the online registration process. An updated list of employer visits is available through the career center Web site (www.smu.edu/career/).

Job Vacancy Postings. Employers post full-time, part-time and internship positions with the Hegi Family Career Development Center throughout the year. Students can find a variety of jobs online via the career center Web site at www.careers.smu.edu as well as in binders at the Hegi Family Career Development Center. These listings include local, national and international opportunities and are updated daily.

Internships. The Hegi Family Career Development Center receives a variety of internship opportunities year-round. An internship is any career-related experience that provides exposure to an occupation, industry or career. It can be for pay, for credit (coordinated through participating academic departments) or completed on a volunteer basis, and initiated in the summer, fall or spring. SMU is a participating school in the Internship Exchange consortium that provides students access to over 6,000 internships nationwide.

Career Events. The Career Center sponsors career fairs and employer panels. These events include The Recruiting Expo, Nonprofit Career Fair, Advertising and Corporate Communications Career Fair, the Career Symposium, Engineering Career Week and the View From the Top.

HEALTH SERVICES

SMU Memorial Health Center

The University’s health facilities are located in the SMU Memorial Health Center, 6211 Bishop Boulevard. An outpatient primary care clinic, specialty clinics, pharmacy, and lab/X-ray facilities occupy the first floor. The Psychi-

atric Service, the Counseling and Testing Center, and the Center for Alcohol and Drug Abuse Prevention are located on the second floor. The Health Center (www.smu.edu/healthcenter) is accredited by the Accreditation Association for Ambulatory Health Care, Inc. (AAAHC).

Outpatient Medical Services. SMU provides a convenient, economical medical clinic for diagnosis and treatment of illness and injury, as well as for immunizations and continuation of treatment such as allergy injections. The clinic is staffed by physicians, registered nurses, pharmacists, lab and X-ray technologists, and other consulting physicians (gynecologist, orthopedist, dermatologist, dentist) essential to the provision of high-quality health care. Physicians are available by appointment from 8:30 a.m. to 5 p.m. Monday through Friday. The facility is closed during student holiday periods. For primary care and specialist physician consultation, call 214-768-2141 for appointments.

Patient Observation. When ordered by a staff physician, a student may be held in observation between 8:30 a.m. and 5 p.m., Monday through Friday. Observation is available for most types of nonmajor medical treatment. When necessary, students are referred to medical or surgical specialists in Dallas. The patient will be responsible for the costs of these services.

Acute/After Hours Care. For emergency care after clinic hours, it is recommended that students go to the emergency room of any major Dallas hospital.

Costs. Undergraduate and graduate students paying the full fee (which includes a health service fee) receive fully covered primary care physician services for that term. Specialized physician care and lab, X-ray, pharmacy, and supplies will be charged at below usual and customary rates charged by other providers. Students not paying full fees (taking 11 credit hours or less) have the option to pay the health fee at registration for Health Center privileges. If the health fee is not paid at registration, students may pay the full fee of \$120 per term or a \$45 per-visit fee upon arrival at the Health Center for physician consultation.

Student Insurance. The University offers a Student Injury and Sickness Insurance policy that provides coverage at the SMU Health Center and at selected clinics or hospitals. Brochures are available through the graduate schools' admissions offices and at the Health Center business office.

Pharmacy. A complete pharmacy with registered pharmacists is open during clinic hours.

X-ray and Laboratory Services. X-ray and laboratory tests are done for nominal fees. All X-rays are interpreted by a radiologist. Gastrointestinal and certain other special X-ray procedures are referred to a specialist.

Immunizations. All students are required to have an SMU medical history form on file in the SMU Health Center before registration. To comply with SMU policy, all students must provide proof of immunization against diphtheria, tetanus, mumps, rubeola (red, or regular, measles), rubella (German, or three-day, measles) since 1980. These immunizations must be documented by a physician, public health record, or school health record. Students will not be

allowed to register without compliance. Immunizations are available at the Student Health Center after arrival at SMU.

Class Absence Due to Illness. Students should schedule appointments with physicians at times when classes will not be missed, especially when there is neither an emergency nor an acute illness. The Health Center does not issue excuses from classes for illness. This is a matter between the student and the professor.

Notification of Parents. Students are encouraged to call one or both parents when ill. Parents or guardians will be notified in cases of serious illness.

Health Service Records. All health service records are confidential. A summary or copy of medical records will be sent to another health care provider or physician only when a written release is given by the student. Records are not made available to parents, SMU administrators, faculty or staff without the patient's written consent. Records are available otherwise only when subject to court subpoena. It is the responsibility of the student to forward billing receipts for health services to the parent for insurance purposes. These itemized receipts, which contain confidential medical information, are given only to the patient.

Counseling Services

Psychiatric Services. The Psychiatric Service provides psychiatric evaluation, crisis intervention and group/individual/couples psychotherapy for students. All interviews are conducted on a voluntary and confidential basis. There is no charge to students who have paid the University health fee. Any laboratory tests or pharmaceuticals ordered will be charged to the student. Appointments may be scheduled between 8:30 a.m. and 5 p.m. Monday through Friday by calling 214-768-2860.

Counseling and Testing Services. The Counseling and Testing Services takes a proactive position to facilitate healthy student development and maintain and enhance students' psychological and emotional well-being. A comprehensive array of psychological services is provided to SMU students, including short-term counseling, assessment, crisis intervention, outreach and consultation. While many students cope quite well with college life, others experience difficulties that interfere with their academic performance and/or social interactions. Students can seek confidential help for concerns such as anxiety, depression, relationship issues, career/life planning, learning disabilities, sexual identity, eating/body image concerns and sexual assault/sexual harassment matters. If the needs of the student exceed the resources of the center, appropriate referrals in the community will be furnished. While counseling services are provided to SMU students at no cost, a modest fee is charged for educational assessments. First-time appointments must be made in person from 8:30 a.m. to 5 p.m. Monday through Friday, second floor, Memorial Health Center. Subsequent appointments may be scheduled in person or by calling 214-768-2211.

Testing Services. Counseling and Testing Services also offer testing to the Dallas-area community. These services include on-campus administration

of national testing programs such as the SAT, LSAT, GRE Subject, PRAXIS and TASP. Other testing offered includes CLEP tests and correspondence examinations for other universities. For additional information, call the center at 214-768-2269.

Center for Alcohol and Drug Abuse Prevention. These services provide a free and confidential source of help and information to the SMU Community on issues related to substance abuse and addiction. Appointments for counseling or assessment can be made between 8:30 a.m. and 5 p.m. Monday through Friday by calling 214-768-4021.

RECREATIONAL SPORTS

Dedman Center for Lifetime Sports

Dedman Center for Lifetime Sports (www.smu.edu/recsports/) is a facility designed for Recreational Sports and Wellness. The new 170,000-square-foot expansion and renovation was completed in 2006. The center provides new racquetball courts, aerobic studios, an indoor running track, basketball and volleyball courts, climbing wall, bouldering wall, 25-meter, five-lane recreational pool, 15,000 square feet of fitness and weight equipment, lobby and café. Various fitness classes are offered. These facilities are open to SMU students, faculty, staff and members.

Intramurals

Many opportunities for team and individual competition are available through intramurals. Leagues offer year-long competition, and other leagues and tournaments cater to those interested in seasonal participation. The five major sports are football, volleyball, basketball, soccer and softball. Other sports and activities offered are bowling, golf, racquetball, tennis, track, swimming, weight lifting and game-room activities. Additional leadership opportunities are available for those interested in officiating or supervising various activities.

Sport Clubs

Sport clubs offer an opportunity for students interested in concentrated training and participation in a sport but who do not want to train and devote the practice time required for NCAA competition. These student-sanctioned clubs, funded by the Student Senate, offer competition with other university/college club teams in crew, cycling, ice hockey, lacrosse, fencing, racquetball, rugby, graduate rugby, sailing, judo, rock climbing, badminton, cricket, soccer and volleyball.

Aquatics

SMU Aquatics features a five-lane, indoor recreational pool and outdoor, zero-depth entry fountain pool known as "The Falls." Students have opportunities to participate year-round in recreational swimming, sunbathing and competitive water sports such as water basketball, volleyball and polo. Classes offered include water fitness, triathlon training, adult swimming lessons and American Red Cross Lifeguard and Water Safety Instructor certifications. Both pools also are available for student group reservations and private parties.

Outdoor Adventures

Outdoor Adventures comprises Outdoor Recreation (outdoor trips), The Rental Shop (renting outdoor equipment), SMU Climbing Center (climbing wall and bouldering wall), and Challenge and Team-Building Activities (incorporating a portable challenge course). SMU OA offers fun and challenging outdoor recreation activities, community-building programs and leadership opportunities through backpacking, rock climbing, kayaking, canoeing and more.

Other Recreational Facilities

The Perkins Natatorium, the Barr Outdoor Pool, the Morrison-Bell Track, Moody Coliseum, outdoor tennis courts and open recreational fields combine to provide students with a full range of leisure possibilities.

Mustang Band

Founded in 1917, the Mustang Band was named the “Best College Marching Band” in Texas in Kirk Dooley’s *Book of Texas Bests*. Long known as “the hub of SMU spirit,” the band represents the University at football and basketball games, produces the *Pigskin Revue* during Homecoming and performs at special University- and community-related events. Membership is open to all SMU students by audition, regardless of major, and scholarships based on need and ability are available.

Spirit Squads

The Cheerleading Squad, Pom-Pom Squads and Peruna mascot are integral parts of SMU’s spirit tradition and are national award winners, having participated in the NCAA Collegiate National Championships. Along with the Mustang Band, they make SMU’s spirit contingent a superb one.

Intercollegiate Athletics

SMU is a member of the National Collegiate Athletic Association (Division I-A) and participates in Conference USA. Men and women student-athletes compete in basketball, cross country/track and field (women only), swimming and diving, golf, soccer, tennis, volleyball (women only), crew (women only), equestrian (women only) and football (men only).

HOUSING

The Department of Residence Life and Student Housing (RLSH) seeks to advance the goals and objectives of the University by creating residential communities that empower residents to value learning, citizenship, and leadership. RLSH is responsible for the campus residential community, including all residence halls, over 215 SMU-owned apartments, and the 10 SMU-owned Greek chapter houses. This responsibility includes maintaining facilities that are well cared for, safe, and that enhance students’ opportunities to grow personally and excel academically.

RIGHT TO KNOW

Southern Methodist University is pleased to provide information regarding academic programs, enrollment, financial aid, public safety, athletics and services for persons with disabilities. The information is available in a conveniently accessible Web site at www.smu.edu/srk. You also may obtain paper copies of this information by contacting the appropriate office listed in the table below. Disclosure of this information is pursuant to requirements of the Higher Education Act and the Campus Security Act.

1. Academic Programs

- a. Current degree programs and other educational and training programs.
- b. Instructional, laboratory, and other physical facilities relating to the academic program.
- c. Faculty and other instructional personnel.
- d. Names of associations, agencies or governmental bodies that accredit, approve or license the institution and its programs and the procedures by which documents describing that activity may be reviewed.

2. Enrollment

- a. Graduation Rates
The completion or graduation rate of the institution's certificate- or degree-seeking, full-time undergraduate students and students who receive athletically related financial aid.
- b. Privacy of Student Education Records
The Family Educational Rights and Privacy Act (FERPA) governs Southern Methodist University's maintenance and disclosure of a student's education records. FERPA provides students the right to inspect and review their education records and to seek amendment of those records that they believe to be inaccurate, misleading or otherwise in violation of their privacy rights. Further, FERPA prevents SMU from disclosing personally identifiable information about a student to outside third parties, except under specific circumstances outlined in SMU's Policy Manual.
- c. Withdrawal
Requirements and procedures for officially withdrawing from the institution.

3. Financial Aid

- a. Financial assistance available to students enrolled in the institution.
- b. Cost of attending the institution, including tuition and fees charged to full-time and part-time students, estimates of costs for necessary books and supplies, estimates of typical charges for room and board, estimates of transportation costs for students, and any additional cost of a program in which a student is enrolled or expresses a specific interest.
- c. Terms and conditions under which students receiving Federal Family Education Loan or William D. Ford Federal Direct Loan assistance may obtain deferral of the repayment of the principal and interest of the loan for
 - i. Service under the Peace Corps Act;

- ii. Service under the Domestic Volunteer Service Act of 1973; or
 - iii. Comparable service as a volunteer for a tax-exempt organization of demonstrated effectiveness in the field of community service.
 - d. The requirements for return of Title IV grant or loan assistance.
 - e. Enrollment status of students participating in SMU Study Abroad programs, for the purpose of applying for federal financial aid.
- 4. Student Financials**
- a. Tuition and fees.
 - b. Living on campus.
 - c. Optional and course fees.
 - d. Financial policies.
 - e. Administrative fees and deposits.
 - f. Payment options.
 - g. Any refund policy with which the institution is required to comply for the return of unearned tuition and fees or other refundable portions of costs paid to the institution.

5. Services for Students with Disabilities

A description of special facilities and services available to students with disabilities.

6. Athletics

- a. Athletic program participation rates and financial aid support.
- b. Graduation or completion rates of student-athletes.
- c. Athletic program operating expenses and revenues.
- d. Coaching staffs.

7. Campus Security

Southern Methodist University's Annual Security Report includes statistics for the previous three years concerning reported crimes that occurred on campus, in certain off-campus buildings or property owned or controlled by SMU, and on public property within or immediately adjacent to/accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault and other related matters.

The information listed above is available in a conveniently accessible Web site at www.smu.edu/srk. You may also obtain paper copies of this information by contacting the appropriate office listed in the table below:

Academics

Provost Office

Perkins Administration Building, Room 219, 214-768-3219

Enrollment

Registrar

Blanton Student Services Building, Room 101, 214-768-3417

Financial Aid

Director of Financial Aid
Blanton Student Services Building, Room 212, 214-768-3417

Student Financials

Director of Student Financials
Blanton Student Services Building, Room 212, 214-768-3417

Students with Disabilities

220 Memorial Health Center, 214-768-4557

Athletics

Associate Athletic Director for Student-Athlete Services
109 Loyd Center, 214-768-1650

Campus Security

SMU Police Department
Patterson Hall, 214-768-1582

DEDMAN COLLEGE GENERAL INFORMATION

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

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

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

In addition to being the oldest academic unit at SMU, Dedman College is also the largest. In 2006, it enrolled more than 2,000 undergraduate majors and nearly 340 graduate students. More than 250 full-time faculty are based in

the College. Undergraduate students in Dedman College may major in any one of 52 programs, and choose from 50 minor programs. The College offers 20 graduate programs leading to a Master's degree and 13 programs leading to a Doctor of Philosophy degree. Its 16 academic departments include: Anthropology, Biological Sciences, Chemistry, Economics, English, Foreign Languages and Literatures, Geological Sciences, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Religious Studies, Sociology and Statistical Science. In addition, the College offers two part-time multidisciplinary evening degrees: Bachelor of Humanities and Bachelor of Social Sciences.

ACADEMIC PROGRAMS OF STUDY

Majors in Dedman College include:

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

Minors available include:

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

Monetary Economics
Public Economics
English

Mathematics

Statistical Science
Women's Studies

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

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

HONORS PROGRAMS

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

DEPARTMENTAL DISTINCTION

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

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

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

PROGRAMS FOR PREPROFESSIONAL STUDENTS

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

Prelaw

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

A sound liberal arts education is valuable for prelaw students. Courses in political science, history, economics, statistics and anthropology help a stu-

dent understand the structure of society and the problems of social ordering with which the law is concerned.

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

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

Admission to Law Schools

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

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

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

Admission to Dedman School of Law

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

Premedical/Dental

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

Most medical and dental schools require the following coursework for entry. These courses should be completed by the end of the junior year:

English, six hours; mathematics (including calculus), six hours; biology, 8-14 hours (14 for Texas medical schools); chemistry, 16 hours; and physics, eight hours. In addition, some schools require biochemistry. This coursework may be done as part of a major or minor in the sciences or as electives in a non-science major or minor. Some will apply toward SMU's general education curriculum requirements.

Candidates for admission to medical school must take the Medical College Admission Test (MCAT). The MCAT should be taken in the spring of the jun-

ior year. Candidates for dental school should take the Dental Admission Test (DAT), also in the spring of the junior year. All students intending to apply to medical or dental schools should contact the Health Professions Advising Office in the Dedman College Advising Center.

UNDERGRADUATE INTERNSHIP PROGRAM

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

The following guidelines apply:

- b Credit-bearing internships are unpaid and are supervised by faculty, department or program.*
- b Dedman Internship Program Orientation and Standardized University Release of Liability for Education Internship are required.
- b Internships are based on a written learning contract signed by the student and faculty supervisor and approved by the department chair or director of undergraduate studies. (Students and site supervisors will complete evaluations of the experience. These evaluations would not be considered in determination of the grade.)
- b Internships require a written component based on and reflective of the experiential dimension.
- b Internships are 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.
- b Credit-bearing internships must be based on unpaid experiences.

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

TEACHER EDUCATION

The University offers a program of studies in teacher education and recommends candidates for certification by the State Board of Educator Certification (SBEC). The recommendation is based on a candidate's successful completion of 24 term hours in education (EDU) courses and six hours of student teaching. In addition, candidates must pass the TExES examinations. Education courses are designed to include all standards tested on the TExES and to prepare students for the requirements including a major. (Prospective secondary teachers must have majors in appropriate teaching fields.) For more information, please contact the Teacher Certification Office at 214-768-2346. For a general description of the program in teacher education offered through the School of Education and Human Development, please refer to page 247.

MULTIPLE MAJORS AND MINORS

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

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

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

TRANSFER COURSES FROM OTHER INSTITUTIONS

Once matriculated at SMU, students wishing to enroll for and transfer in courses offered at other institutions in subject areas within the Dedman College curriculum must receive prior approval from their adviser, the chair of the SMU department that normally would offer the course, and the dean of Dedman College. A maximum of 15 credit hours of post-matriculation transfer work may be approved. Approval may be denied for educational reasons. Post-matriculation transfer work from two-year institutions will not be approved.

ADMISSION

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

Admission from Other Schools Within SMU

An individual enrolled in another school of the University may apply to the dean of the school in which the student is currently enrolled for permission to transfer into a degree-granting program in Dedman College. A student who has achieved a cumulative G.P.A. of 2.00 on all SMU work attempted will normally be admitted to candidacy for a degree in Dedman College. Additional requirements for programs with subset curriculums may exist. Please consult the catalog section and/or the department for more information.

Readmission of Former Students

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

DEGREE REQUIREMENTS

Dedman College offers four undergraduate degrees: the Bachelor of Arts, the

Bachelor of Science, the Bachelor of Social Sciences and the Bachelor of Humanities. For the degree available in a specific area of study, consult the individual programs of study outlined in the following sections of this catalog.

THE MAJOR

A candidate for a degree must complete the requirements for a major in one of the departments or interdisciplinary programs of the College. The major requirements of each department and program are stated at the beginning of the section describing the courses offered in that department or area. The applicable requirements of the major are those in effect during the academic year in which the major is declared, or those of a subsequent academic year. Course work counting toward a major must include at least 18 advanced hours in residence and may not be taken pass/fail. All advanced courses required in the major must be passed with a grade of C- or better. In addition, Dedman College requires a cumulative G.P.A. of 2.00 for all courses attempted for completion of a major or minor. All courses attempted that could count towards the major/minor are included in determining the major/minor G.P.A. Majors must be officially declared (or changed) through the Office of the Dean.

THE MINOR

A candidate for a degree may also complete the requirements of a minor, either in Dedman College or in one of the other undergraduate schools of the University. Advisers in the minor programs assist students in selecting a minimum of 15 hours, including at least nine at the advanced level, suitable for meeting requirements for a minor. Course work counting toward a minor may not be taken pass/fail. All advanced courses required in the minor must be passed with a grade of C- or better. At least half of the advanced hours required by Dedman minors must be completed in residence. In addition, Dedman College requires a cumulative G.P.A. of 2.00 for all courses attempted for completion of a major or minor. All courses attempted that could count towards the major/minor are included in determining the major/minor G.P.A. Minors must be officially declared (or changed) through the Office of the Dean.

GENERAL REQUIREMENTS

Student Responsibility for Completion of Degree Plan

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

Application for a Degree

Students must submit to the Office of the Dean a formal application for graduation by August 29 for December 2007 graduation, by January 22 for May 2008 graduation, or by June 3 for August 2008 graduation.

Credits

A candidate for a degree in Dedman College must have:

- b A minimum total of 122 term hours of credit, including the requirements for

- general education and the requirements for a major.
- b A minimum total of 42 advanced hours (3000 level or above).
 - b A maximum total of 2 hours of Wellness.
 - b A maximum total of 3 hours of internship credit.

Grades

A candidate for a degree in Dedman College must attain:

- b A minimum cumulative G.P.A. of 2.00 on all work attempted at SMU.
- b A minimum cumulative G.P.A. of 2.00 on all work attempted at SMU and all equivalent work attempted elsewhere, if any.
- b A minimum grade of *C-* on any advanced course offered in fulfillment of major or minor requirements.
- b A minimum cumulative G.P.A. of 2.00 for all work attempted for completion of major or minor requirements.
- b No more than 12 hours with a grade of *P*.

Residency

As minimum requirements, a candidate for a degree in Dedman College must take the following hours in residence at SMU:

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

Requirements for Obtaining Two Degrees Simultaneously

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

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

Graduation Honors

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

Departmental Distinction

By successfully completing a special program of study in the major department, a student may be awarded departmental distinction regardless of eligibility for graduation honors. The program of study normally will be undertaken in both the junior and senior years. This award is conferred by the major de-

partment on the basis of certain criteria prescribed by the department, but all programs include the minimum requirements of independent reading and research beyond the regular departmental requirements for a degree and the completion of a senior paper or research report. Further information may be obtained from the individual departments.

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

COURSES OF STUDY IN DEDMAN COLLEGE

AEROSPACE STUDIES

www.unt.edu/afrotc

Students at SMU can participate in the Air Force ROTC program at the University of North Texas. Students who participate in the UNT Air Force ROTC program are responsible for their own travel and other physical arrangements. Students register for the Aerospace Studies courses at the same time and in the same manner as they register for other SMU courses. The AFROTC courses are fully accredited, and may be taken as electives in most academic majors. Successful completion of degree requirements and the AFROTC program can lead to a commission as a second lieutenant in the United States Air Force.

For more information concerning tax-free allowances, scholarships, and application procedures, contact: AFROTC, The University of North Texas, PO Box 305400, Denton TX 76203; 940-565-2074; afrotc@unt.edu.

The Courses (AERO)

1030 (Fall), 1040 (Spring). Foundations of the U.S. Air Force. A survey course designed to introduce students to the USAF and the AFROTC. Featured topics include mission and organization of the Air Force; officership and professionalism; military customs and courtesies; Air Force officer opportunities, and an introduction to communication skills.

2030 (Fall), 2040 (Spring). The Evolution of USAF Air and Space Power. A course designed to examine general aspects of air and space power through a historical perspective. Using this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies) and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. In addition, students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders, and will continue to develop their communication skills.

2920. Cooperative Education In Aerospace Studies. Supervised work in a job directly related to the student's major, professional field of study, or career objective. One to three hours each week. *Prerequisites:* Permission of division chair; student must meet employer's requirements. May be repeated for credit.

3310 (Fall), 3320 (Spring). Air Force Leadership. A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of

demonstrating and exercising practical application of the concepts being studied.

4310 (Fall), 4320 (Spring). National Security Forces in Contemporary American Society/Preparation for Active Duty. Examines the national security process; regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.

4920. Cooperative Education in Aerospace Studies. Supervised work in a job directly related to the student's major, professional field of study, or career objective. One to three hours each week. *Prerequisites:* 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

ANTHROPOLOGY

www.smu.edu/anthro

Professor Robert Van Kemper, **Department Chair**

Professors: Caroline Brettell, David Freidel, David Meltzer, Carolyn Sargent, Ben Wallace, Ronald Wetherington; **Associate Professors:** Michael Adler, Victoria Lockwood, David Wilson; **Assistant Professor:** R. Alan Covey, Carolyn Smith-Morris, Torben Rick; **Adjunct Lecturer:** John Phinney; **Emeritus Professors:** Barbara Anderson, Lewis Binford, Harold Hietala, Anthony E. Marks, Ladislav Novak, Garth Sampson, Fred Wendorf

Anthropology is divided into four subfields: I) archaeology, II) cultural/social anthropology, III) anthropological linguistics and IV) physical anthropology. In addition to providing the basis for careers in the subdisciplines, anthropology provides a background for professional careers in teaching, research, affairs, medicine, business or law. A grade of C- or better must be earned in all courses taken in fulfillment of the requirements for the Anthropology major. Students majoring in Anthropology must achieve a minimum 2.00 G.P.A. in Anthropology and are urged to consult their departmental adviser periodically to review their progress.

For Undergraduate Students

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

Requirements for the B.S. Degree. Intended for students who want more specialized training in anthropology, it provides a strong foundation for students intending to pursue a graduate degree. Thirty-six term hours of anthropology are required, of which 24 must be advanced. Of the 36 hours, the following courses are required: ANTH 2301; 2315; 2363; and either 4366 or 5334; six term hours of fieldwork-related study (Option 1: 5381 or 5382 and 4333 or 5681 OR Option 2: 5344 and SOCI 3311 or SOCI 3312); one of the following: 3361 or 5359; and three term hours of independent study (4191,

4192, 4291, 4292, 4391 or 4392). In addition, three term hours of statistics (generally STAT 2331), and six term hours of foreign language are required.

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

Distribution. Many ANTH courses are acceptable for Perspectives 6. Many anthropology courses also fulfill the cocurricular requirements.

General Anthropology Minor

1. ANTH 2301: Introductory Cultural Anthropology 3 hours
2. A minimum of one course in each Anthropological subfield 12 hours
(Archaeology, Cultural Anthropology, Linguistics, Physical Anthropology)

(9 hours of which are advanced)

[NOTE: ANTH 4350/51/52 may be counted for the relevant subfield.]

Archaeology Minor

1. ANTH 2301: Introductory Cultural Anthropology 3 hours
2. ARCHAEOLOGICAL CONCEPTS (one of the following) 3 hours

ANTH 2302 People of the Earth

ANTH 2363 The Science of Our Past

3. REGIONAL ARCHAEOLOGY/METHODS 9 hours

ANTH 3304 North American Archaeology

ANTH 3312 Meso-American Archaeology

ANTH 3313 South American Indians of the Past and Present

ANTH 3315 Origins of Civilization

ANTH 3318 Prehistory of the American Southwest

ANTH 3319 Human Ecology

ANTH 3334 Fantastic Archaeology and Pseudoscience

ANTH 3356 Before Civilization

ANTH 3365 The Rise and Fall of Superpowers

ANTH 3374 Cultures and Environments of the Southwest

ANTH 3384 Paradise Lost?: The Archaeology and Ethics of Human Environmental Impacts

ANTH 3388 Warfare and Violence

ANTH 3399 Ice Age Americans

ANTH 4191/4291/4391 Independent Study and Research (Archaeological Topic)

ANTH 4300 World Archaeology

ANTH 4325 Zooarchaeology

ANTH 4333 Lab Methods in Archaeology

ANTH 4343 Health and Medical Systems

ANTH 4350/4351/4352 Special Topics in Anthropology (when relevant)

ANTH 4381 Internship in Anthropology (archaeological topic)

ANTH 4385 Coastal and Aquatic Archaeology

ANTH 4390 Current Issues in Anthropology (when topic is relevant)

ANTH 4391/4392 Independent Study and Research (archaeological topic)

ANTH 4399 Senior Seminar in Anthropology

ANTH 5381/5681 Field Methods in Archaeology

ANTH 3351 Forensic Anthropology OR **ANTH 4352** Topics: Human Osteology

Bio-Medical Anthropology Minor

Total: 18 Hours

1. CORE COURSES

9 hours

ANTH 2301 Introductory Cultural Anthropology

ANTH 3301/SOCI 3301 Health, Healing and Ethics

ANTH 5336 Anthropology and Medicine

2. BIOMEDICAL ANTHROPOLOGY ELECTIVES

6-9 hours

ANTH 3303 Psychological Anthropology

ANTH 3350 Good Eats and Forbidden Flesh

ANTH 3351 Forensic Anthropology

ANTH 3371 Nutritional Problems of Modern Populations

ANTH 4303 Political Economy of Health

ANTH 4307 Seminar in International Health

ANTH 4344 Global Population Processes

ANTH 4350/4351/4352 Special Topics in Anthropology (biomedical topic)

ANTH 4381 Internship in Anthropology (biomedical topic)

ANTH 4391/4392 Independent Study (biomedical topic)

3. ELECTIVES IN OTHER DEPARTMENTS

0-3 hours

PHIL 3376 Medical Ethics

PSYC 3380 Health Psychology

ANTH/RELI 3366 Magic, Myth and Religion Across Cultures

WS 2380 Human Sexuality

Cultural Anthropology Minor

1. ANTH 2301 Introductory Cultural Anthropology

3 hours

2. CULTURAL CONCEPTS (two of the following)

6 hours

ANTH 2331 The Formation of Institutions: Roots of Society

ANTH 3301 Health, Healing and Ethics

ANTH 3303 Psychological Anthropology

ANTH 3310 Gender and Sex Roles: A Global Perspective

ANTH 3319 Human Ecology

ANTH 3327 Culture Change and Globalization

ANTH 3333 The Immigrant Experience

ANTH 3336 Gender and Globalization: Cultural and Ethical Issues

ANTH 3344 Cultural Aspects of Business

ANTH 3350 Good Eats and Forbidden Flesh

ANTH 3361 Language in Culture and Society

ANTH 3366 Magic, Myth and Religion Across Cultures

ANTH 3368 Urban Life: A Cross-Cultural Perspective

ANTH 3388 Warfare and Violence

ANTH 4191, 4291, 4391 Independent Study and Research (Cultural Anthropology Topic)

ANTH 4304 Migration, Ethnicity and Nationalism

ANTH 4305 Applied Anthropology

ANTH 4306 Anthropology and Education

ANTH 4344 Global Population Processes: Anthropological Perspectives

ANTH 4350/4351/4352 Special Topics in Anthropology (when relevant)

ANTH 4371 The Nature of the Aging Process

ANTH 4381 Internship in Anthropology (when relevant)

- ANTH 4384** Global Issues and Development
 - ANTH 4390** Current Issues in Anthropology (Cultural Anthropology Topic)
 - ANTH 4391/4392** Independent Study (Cultural Anthropology Topic)
 - ANTH 4399** Senior Seminar (when relevant)
 - ANTH 5336** Anthropology and Medicine
 - ANTH 5344** Research Methods in Ethnology
3. REGIONAL ETHNOGRAPHY 6 hours
- ANTH 3311** Mexico: From Conquest to Cancun
 - ANTH 3313** South American Indians of the Past and Present
 - ANTH 3314** Peoples of Africa
 - ANTH 3316** Cultures of the Pacific Islands
 - ANTH 3317** Peoples of Southeast Asia
 - ANTH 3323** East Asia: Cultural Traditions and Transformations
 - ANTH 3346** Culture and Diversity in American Life
 - ANTH 3353** Indians of North America
 - ANTH 3354** Latin America: People, Places and Power
 - ANTH 3355** Society and Culture in Contemporary Europe
 - ANTH 3358** Indians of the Southwest from the 16th Century to the Present
 - ANTH 3376** Caribbean Transformations: From Columbus to Carnival

The Departmental Distinction Program. This program is open to junior and senior anthropology majors with outstanding academic records. Graduation with departmental distinction is designated on the diploma of those who successfully complete the program. To earn departmental distinction, a student must: (a) complete the usual course work for a B.A. or B.S. degree with at least a 3.50 G.P.A. in anthropology and with at least a 3.00 G.P.A., overall; (b) with a grade of *B* or higher, pass ANTH 4366 and ANTH 5334 or complete a substantial independent reading program (for three term-hours credit that replaces one of these) on the history, conceptual foundations or methodological problems of the discipline; (c) with a grade of *A* or *A-*, conduct a research project (for three term hours credit in ANTH 4391 or 4392); and complete a significant research paper that is a minimum of 20 pages of text, includes a bibliography, and is written in appropriate subdisciplinary professional style and format; and (d) pass an oral examination of one hour in length (with at least three departmental faculty members), covering the results of the research project and general issues and concepts in anthropology according to the subfield specialty.

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

The Courses (ANTH)

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

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

Diversity corequirement.

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

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

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

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

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

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

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

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

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

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

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

3310 (CF 3301). Gender and Sex Roles: A Global Perspective. Cross-cultural and historical comparison of women's and men's life experiences in the areas of family, marriage and kinship, economic and political participation, sexuality, reproduction, ritual and religion. Meets Human Diversity corequirement.

3311. Mexico: From Conquest to Cancun. An introduction to the unity and diversity of Mexican society as it has developed through encounters with other cultures – from

16th century conquistadores to 21st century tourists and emigrants. Meets Human Diversity corequirement.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3371. Nutritional Problems of Modern Populations. Consumption, preferences and dietary patterns. Nutritional requirements of developing and industrialized countries. Health problems related to malnutrition and plenty.

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

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

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

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

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

For Undergraduate and Graduate Students

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4366. Theoretical Perspectives in Anthropology. Development of modern anthropological paradigms, with intensive readings in science, ethnology and ecological anthropology and a focus on the potential utility of theoretical coherence within the discipline. *Prerequisite:* Eighteen hours of Anthropology or permission of instructor.

4367. Comparative Peasant Society. Economic and social institutions of contemporary peasant societies are examined with special focus on the changes they are undergoing in the 20th century. *Prerequisite:* ANTH 2301 or permission of instructor.

4371. The Nature of the Aging Process. General considerations and theories of aging in various populations; factors affecting aging, mental and psychomotor abilities in aging, and aging of biological systems; nutrition and metabolism of aged populations; body composition changes and aging, physical activity effect on aging; diseases of aging; rehabilitation of the aged.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Anthropology Courses By Subfield

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

Subfield: General

2331 The Formation of Institutions: Roots of Society

3319 Human Ecology

4191, 4291, 4391, 4192, 4292, 4392 Independent Study and Research

4366 Theoretical Perspectives in Anthropology

4399 Senior Seminar in Anthropology

5334 History of Anthropology

Subfield I: Archaeology

2302 People of the Earth: Humanity's First Five Million Years

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

Subfield II: Cultural/Social Anthropology

2301 Introductory Cultural Anthropology
3301 Health, Healing and Ethics: Cross Cultural Perspectives on Sickness and Society
3303 Psychological Anthropology
3310 Gender and Sex Roles: A Global Perspective
3311 Mexico: From Conquest to Cancun
3313 South American Indians of the Past and Present
3314 Peoples of Africa
3316 Cultures of the Pacific Islands
3317 Peoples of Southeast Asia
3323 East Asia Cultural Traditions and Transformations
3327 Culture Change and Globalization: Social Science Perspectives
3333 The Immigrant Experience
3336 Gender and Globalization
3344 Cultural Aspects of Business
3346 Culture and Diversity in American Life
3350 Good Eats and Forbidden Flesh: Culture, Food and the Global Grocery Market
3353 Indians of North America
3354 Latin America: Peoples, Places and Power
3355 Society and Culture in Contemporary Europe
3358 Indians of the Southwest from the 16th Century to the Present
3366 Magic, Myth and Religion Across Cultures
3368 Urban Life: A Cross Cultural Perspective
3376 Caribbean Transformations: From Columbus to Carnival
3388 Warfare and Violence: The Anthropology and Ethics of Human Conflict
4303 Political Economy of Health
4304 Migration and Ethnicity
4305 Applied Anthropology
4306 Anthropology and Education

- 4307** Seminar in International Health
- 4343** Health and Medical Systems
- 4344** Global Population Processes: Anthropological Perspectives
- 4346** Environmental Anthropology and Development
- 4352** Special Topics in Anthropology
- 4384** Global Issues and Development: An Overview
- 4390** Current Issues in Anthropology
- 5336** Anthropology and Medicine
- 5344** Research Methods in Ethnology

Subfield III: Anthropological Linguistics

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

Subfield IV: Physical Anthropology

- 2315** Human Evolution: Biological and Social Beginnings of Humankind
- 3302** Monkeys and Apes: The Nonhuman Primates
- 3350** Good Eats and Forbidden Flesh: Culture, Food and the Global Grocery Market
- 3351** Forensic Anthropology: Stories Told by Bones
- 3371** Nutritional Problems of Modern Populations
- 4351** Special Topics in Anthropology
- 4352** Special Topics in Anthropology
- 4371** The Nature of the Aging Process

BIOCHEMISTRY

www.smu.edu/biochemistry

Professor Steven Vik, **Director**

The Biochemistry Program at SMU offers courses leading to a Bachelor of Science degree in Biochemistry. This program reflects the interdisciplinary nature of modern biochemistry and includes courses in physics, mathematics, chemistry and biology. Undergraduate research is also highly recommended. These courses will prepare students for graduate study leading to a Ph.D. degree, for entrance to professional schools such as medicine, or for the chemical or biotechnology industry.

The program at SMU includes a core of required courses but allows some flexibility in the choice of additional upper-division courses. Note that there are two options for choosing the additional courses. Option 1 has been certified by the American Chemical Society (ACS) for professional training in biochemistry. Option 2 allows a stronger emphasis on biology, but does not qualify a student for ACS certification. Students planning to attend graduate school are advised to take at least three credits of Undergraduate Research (BIOL 3398, 4398 or CHEM 4397).

Core Courses

(57 credits)

Chemistry (25 credits):

- CHEM 1303, 1304; 1113, 1114** General Chemistry
- CHEM 3351** Quantitative Analysis
- CHEM 3371, 3372; 3117, 3118** Organic Chemistry

CHEM 5383, 5384 Physical Chemistry

Biological Sciences (11 credits):

BIOL 1401, 1402 Introductory Biology

BIOL 3304 Genetics

Biochemistry (4 credits):

BIOL/CHEM 5310 Biological Chemistry: Macromolecular Structure and Function

BIOL/CHEM 5110 Biological Chemistry: Laboratory

Mathematics (9 credits):

MATH 1337, 1338, 2339 Calculus

Physics (8 credits):

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

Additional Courses

(choose either Option 1 or Option 2)

Option 1 (11 credits)

Required (5 credits):

CHEM 5185 Laboratory Methods in Physical Chemistry

CHEM 5192 Inorganic Synthesis Laboratory

CHEM 5392 Advanced Inorganic Chemistry

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

BIOL/CHEM 5311 Biological Chemistry: Metabolism

BIOL/CHEM 5312 Physical Biochemistry

BIOL 5304 Molecular Biology: Control and Expression of Genetic Information

CHEM 5397 Biotransformations and Biocatalysis

CHEM 5398 Medicinal Chemistry

Option 2 (9 credits)

Required (6 credits):

BIOL 3350 Cell Biology

BIOL/CHEM 5311 Biological Chemistry: Metabolism

Electives (choose 3 credits):

BIOL/CHEM 5312 Physical Biochemistry

BIOL 5304 Molecular Biology: Control and Expression of Genetic Information

The Departmental Distinction Program. A biochemistry major may graduate “with departmental distinction” by successfully completing a special program of study that includes independent reading and research and a senior thesis under the direction of a member of the faculty. The student must submit an application to the biochemistry adviser by the first term of the junior year. At this time the student must have completed at least 22 hours toward the biochemistry degree, with a G.P.A. of at least 3.50 in courses required for the major. Upon approval from the respective departments, the student must enroll in the following courses: BIOL 4398, 4399 or CHEM 4397. Upon completion of these courses, the student will write a senior thesis and present it orally before a public audience including a faculty committee composed of the student’s research adviser, the biochemistry adviser, and at least one additional faculty member. Upon successful completion of the senior thesis and maintenance of a G.P.A. of at least 3.50 in courses required for the major, the B.S. degree will

be awarded with departmental distinction.

BIOLOGICAL SCIENCES

www.smu.edu/biology

Professor Larry Ruben, **Department Chair**

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

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

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

The Departmental Distinction Program. A biological sciences major with sufficiently high academic standing may graduate with departmental distinction by successfully completing a special program of study that includes independent reading and research and a senior thesis under the direction of a member of the departmental faculty. To graduate with departmental distinction, a student must be working toward the degree of Bachelor of Science and must submit an application to the Undergraduate Studies Committee of the

department for this designation during the first term of the junior year. At the time of the application, the student must have completed at least 14 hours of biological sciences, including at least six advanced hours, with a G.P.A. in these courses of at least 3.50 and an overall G.P.A. of at least 3.50. For students who have transferred to SMU, two grade point averages will be calculated, that for all work attempted, and that for work completed at SMU. Admission to the program will be based on the lower of the two averages. With departmental approval, the student will enroll for BIOL 4398 in the second term of the junior year. Upon completion of this course with a grade of B+ or better, the student will enroll during the senior year for BIOL 4399 in which a research project will be carried out and a senior thesis written and presented to the faculty. Performance in these courses and maintenance of a 3.50 G.P.A. for all biological sciences courses attempted will determine if the B.S. degree will be awarded "with departmental distinction."

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

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

Requirements for the Minor. Students majoring in other departments may obtain a minor in Biological Sciences by completing BIOL 1401, 1402, 3304, 3350 and an additional advanced three- or four-hour course that includes a laboratory session. Each advanced course must be taken in residence. CHEM 1303, 1304, 1113 and 1114 also are required for the minor. A student may not earn minors in both Biology and the Natural Sciences.

Courses for Nonscience Majors (BIOL)

The courses outlined in this section are designed to satisfy the curricular requirements of nonscience students. BIOL 1303 is not open to students who have earned prior credit in BIOL 1401; and BIOL 1304, 1305, 1308 and 1310 are not open to students who have earned prior credit in BIOL 1402. Non-science majors should note that BIOL 1401 and 1402 may also be taken to satisfy distribution requirements.

1303, 1304. Essentials of Biology. An introduction to the major concepts of biological thought for the nonscience major. First term: cell biology, physiology, inheritance, developmental biology and human reproduction; second term: evolution, diversity of plants and animals, and ecology. Includes one laboratory session each week.

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

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

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

Courses for Biology Majors (BIOL)

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

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

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

3303. Evolution. A study of the principles of biological evolution. Includes natural selection, adaptation, molecular evolution, and the formation of new species, the fossil record, biogeography, and principles of classification. Three lecture hours each week. *Prerequisite:* BIOL 1401, 1402 and 3304.

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

3306. Physiology. Homeostatic control mechanisms in vertebrates. Three lecture hours each week. *Prerequisite:* BIOL 3350.

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

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

3350. Cell Biology. The structure and function of cells. Three lecture hours each week. *Corequisite or Prerequisites:* CHEM 1304.

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

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

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

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

3403. Microbiology. The biology of microorganisms, with an emphasis on diversity, disease and the environment. Three lecture hours and one three-hour laboratory each

week. *Prerequisite:* BIOL 3304; *Recommended preparation:* CHEM 3371 and CHEM 3117.

4132. Senior Seminar. Discussion of current problems of biological interest. One hour each week. *Prerequisite:* BIOL 1401, 1402; senior standing, major in Biology.

4160. Toxicology Laboratory. Modern biochemical and molecular techniques will be used to assess the impact of environmental contaminants on liver biomarkers in fish. One three-hour laboratory each week. *Prerequisites:* BIOL 3350 or BIOL 3306; *Prerequisite or Corequisite:* BIOL 4360.

4321. Molecular Biology of Prokaryotes. Molecular biology of prokaryotic cells with emphasis on molecular genetics, regulatory mechanisms and recombinant DNA technology. A student cannot have previously completed BIOL 5304. *Prerequisites:* BIOL 3304, CHEM 3372 and junior standing.

4322. Molecular Biology of Eukaryotes. Structure and function of eukaryotic chromosomes as mediators of gene expression during growth, differentiation and oncogenesis. A student cannot have previously completed BIOL 5304. *Prerequisites:* BIOL 3304, CHEM 3372, and junior standing.

4331. Developmental Biology. Developmental processes in animals. Three lecture hours each week. *Prerequisite:* BIOL 3304.

4360. Environmental and Human Toxicology. Introduction to environmental toxicology, focusing on the fate and transport, biotransformation, and biochemical and physiological impacts of pollutants on humans and wildlife. Three lecture hours per week. *Prerequisites:* BIOL 3350 or BIOL 3306.

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

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

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

5119. Immunobiology Lab. One three-hour laboratory each week. *Prerequisite or Corequisite:* BIOL 5319.

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

5304. Molecular Biology: Control and Expression of Genetic Information. DNA structure and replication, control of transcription and translation, and techniques in molecular genetics and recombinant DNA technology. A student cannot have previously completed BIOL 4321 or BIOL 4322. *Prerequisites:* BIOL 3304, CHEM 3372.

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

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

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

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

5319. Immunobiology. The immune responses of vertebrate animals. Three lecture hours each week. *Prerequisite:* BIOL 3350.

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

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

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

Special Courses (BIOL)

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

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

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

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

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

4132. Senior Seminar. Discussion of current problems of biological interest. One hour each week. *Prerequisite:* Senior standing in biology.

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

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

SMU-in-Taos Courses

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

3347. Systematic Botany. An introduction to the history, nomenclature, family char-

acteristics, identification and biosystematics of the lowering plants. Lectures and laboratories conducted at Fort Burgwin, New Mexico.

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

SMU-in-Copenhagen Courses

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

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

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

CHEMISTRY

www.smu.edu/chemistry

Professor Edward Biehl, **Department Chair**

Professors: John Buynak, Michael Lattman, John Maguire, Mark Schell, Patty Wisian-Neilson; **Associate Professors:** Werner Horsthemke, David Son; **Assistant Professors:** Ling Hua, Brent Sumerlin; **Lecturers:** Helen Babbili, Andrea Adams.

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

For Undergraduate Students

Requirements for the B.S. Degree. The completion of a minimum of 44 term hours in the department, including CHEM 1113, 1114, 1303, 1304, 3351, eight hours organic chemistry I&II with labs, 4397, 5185, 5188, 5192, 5310, 5383, 5384, 5392, 5486 and an additional 5000-level course in chemistry to be chosen in consultation with the departmental adviser. In addition, PHYS 1403, 1404 (or 1407, 1408); MATH 1337, 1338, 2339. A reading knowledge of scientific German or Russian (a minimum of six term hours) is recommended for students planning graduate work in chemistry. This degree is

certified by the American Chemical Society for professional training in chemistry.

Requirements for the B.S. Degree in Environmental Chemistry. CHEM 1113, 1114, 1303, 1304, 3351, eight hours organic chemistry I&II with labs, 5310, 5383, 5384, 5486, 5390 and either 5392 or GEOL 3451. In addition, PHYS 1403, 1404 (or 1407, 1408); MATH 1337, 1338, 2339; GEOL 6363; at least one introductory environmental science elective, chosen from GEOL 1301, GEOL 1305, GEOL 1315, GEOL 2320, GEOL 2321, ENCE 2304 or ENCE 2421; at least one advanced environmental science elective, chosen from BIOL 3307, BIOL 3343, GEOL 3353, GEOL 3366, GEOL 5384 or ENCE 5333; at least three term hours of Undergraduate Research (CHEM 4397 or GEOL 4296 at a three credit level) on a topic in environmental chemistry. The research project can be conducted in the laboratory of an SMU faculty member or as an internship with a private company, and will culminate in a written report. Students planning to attend graduate school are advised to complete MATH 2343 or a Statistical Science course at the 4000 or 5000 level. This degree program is certified by the American Chemical Society for professional training in environmental chemistry.

Requirements for the B.A. Degree. The completion of a minimum of 26 term hours in the department, including CHEM 1113, 1114, 1303, 1304, eight hours organic chemistry I&II with labs, 5381 (or 5383), plus at least seven additional hours at the advanced level, to be chosen in consultation with the department adviser. In addition, PHYS 1403, 1404 (or 1407, 1408); MATH 1337 and one additional course in math or statistics are required. This degree is not certified by the American Chemical Society.

Requirements for the Four-Year combined B.S./M.S. This program is designed for exceptionally well-prepared students who wish to accelerate their studies in chemistry. By combining summer research with the regular academic year, students in this program can complete the B.S. degree in three years and the M.S. degree after an additional year of study. No requirements for either degree are waived in this program. Students in this program are eligible for the department's Honors courses. For further details contact the Department of Chemistry.

The Departmental Distinction Program. A chemistry major pursuing a B.S. degree may elect to graduate with departmental distinction. The student must apply to the department for this designation during the junior year, after at least 22 hours of chemistry have been completed with a minimum G.P.A. in those courses of 3.5. The student will undertake an independent research project under the supervision of a departmental faculty member, and enroll in CHEM 4397. During the senior year, a senior thesis will be written and presented to the department. Upon approval of the departmental faculty at the completion of these requirements, and provided the student maintains a minimum 3.5 G.P.A. in all chemistry courses, the student will be awarded the "departmental distinction" designation.

Requirements for the Minor. Students majoring in other departments may obtain a minor in chemistry by completing CHEM 1303, 1113 and

CHEM 1304, 1114 plus three additional advanced three- or four-hour courses to be chosen in consultation with the Chemistry Department adviser.

The Courses (CHEM)

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

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

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

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

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

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

3351. Quantitative Analysis. A course involving the theory and practice of quantitative analytical chemistry techniques including gravimetric, volumetric, electrochemical and spectroscopic analyses. Three hours of lecture and two four-hour laboratory periods per week for one-half term.

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

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

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

Courses for Undergraduate and Graduate Students

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

5110 (BIOL 5110). Biological Chemistry Laboratory. One three-hour laboratory period each week. *Corequisite:* CHEM 5310.

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

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

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

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

term.

5310 (BIOL 5310). Biological Chemistry: Macromolecular Structure and Function. Introduction to the structure and function of macromolecules of biological importance. Emphasis on nucleic acid and protein structure, enzyme kinetics, carbohydrate and lipid chemistry. Three lecture hours per week. *Prerequisites:* CHEM 3371 and 3372.

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

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

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

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

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

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

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

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

5393. Advanced Organic Chemistry. Three hours of lecture each week. *Prerequisites:* CHEM 3372.

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

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

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

5486. Instrumental Analysis. A course involving the theory, operation and application of instrumentation used in the modern chemical laboratory. Two hours of lecture and two three-hour laboratory periods each week.

CLASSICAL STUDIES

Associate Professor Melissa Dowling, Director

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

A. Classical Languages (Six Hours)

LATN 2311, 2312 or other advanced Latin courses
Classical Greek at 2000 level, when available)

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

Group 1 (Art History)

ARHS 3303 Archaeological field methods in Italy
ARHS 3307 Art & Society in Late Antiquity, 300-700
ARHS 3312 Etruscan and Roman Art
ARHS 3313 Etruscan and Iron Age Italy
ARHS 3314 The Art and Architecture of Ancient Pompeii
ARHS 3315 Classical Sculpture
ARHS 3316 Art in Rome (SMU-in-Rome)
ARHS 3317 Ancient Painting
ARHS 3319 Art of the Roman Empire

Group 2 (History)

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

Group 3 (Other)

ANTH 2321 (ENGL 2371) The Dawn of Wisdom: Ancient Creation Stories from Four Civilizations
ARHS 3318 Currents in Classical Civilization
CLAS 2311 Myth and Thought in the Ancient World (SMU-in-Taos)
CLAS 2332 Society Expanding – Polis and Empire
CLAS 3311 (ARHS 3311) Mortals, Myths and Monuments of Ancient Greece
RELI 3320 Introduction to Classical Judaism
RELI 3326 Introduction to New Testament
RELI 3349 Early Christianity
RELI 3371 Religion and Culture in the Greco-Roman World

The Courses (CLAS)

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

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

3311 (ARHS 3311). Mortals, Myths and Monuments of Ancient Greece. Focusing exclusively on Greek and Roman antiquity, the course will introduce students to major artistic, literary and philosophical expressions in their historical framework.

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

ECONOMICS

www.smu.edu/economics

Professor Kamal Saggi, Department Chair

Professors: Nathan Balke, Raveendra Batra, Rajat Deb, Tom Fomby, Kathy Hayes, Esfandiar Maasoumi, Santanu Roy, Kamal Saggi, Daniel Slottje, Shlomo Weber; **Associate Professors:** Daniel Millimet, Thomas Osang; **Assistant Professors:** Pedro Amaral, Kyle Hyndman, Saltuk Ozerturk; **Lecturers:** Helen Reynolds, Rupinder Saggi.

Requirements for Major. The student majoring in economics will be expected to take ECO 1311 and 1312 during the first or sophomore year. All majors must take ECO 1311, 1312, 3301 and 3302 and must have a G.P.A. of at least 2.00 in economics courses attempted. Students must receive at least a C- in all economics and finance classes counting toward the major or minor. Once the major is declared, due progress must be made in terms of course enrollment. If requirements change, the bulletin in force at the time the major is declared prevails.

Requirements for the B.A. Degree. The Bachelor of Arts degree in economics is designed primarily for students who want a liberal arts education with an emphasis on economics but with great breadth. This degree shall consist of at least 30 hours in economics, of which no more than six hours may be in courses below the 3000 level. MATH 1309 or 1337 is recommended but not required.

Requirements for the B.S. Degree. The Bachelor of Science degree in economics offers more specialized training in economics and provides a firm basis for graduate study in business, economics or law by requiring six hours of calculus (MATH 1337 and 1338); STAT 2301, 2331 or 4340; and 24 hours in advanced economics, of which at least six hours must be at the 5000 or above level.

Requirements for the B.S. Degree with Finance Applications. The degree combines specialized training in economics with a concentration in areas significant to financial markets, plus three hours each in needed tools of ACCT 2311; MATH 1309 or 1337; STAT 2301, 2331 or 4340; and CSE 1340, 1341 or ITOM 3306 (only for business majors/minors). This degree is particularly suited to those seeking careers in the financial sector and requires nine hours in financial economics and 18 hours in advanced economics, of which at least six hours must be at the 5000 or above level. Interested students are encouraged to see the departmental adviser before selecting these classes to ensure all requirements are met.

Requirements for the B.S. Degree with Systems Analysis. The B.S. degree in economics with systems analysis offers integrated studies in economics, operations research and computer science. It provides excellent

preparation for graduate education in economics, business or public administration, and for service in both the public and private sectors where quantitative economists provide assistance in policy formulation. Students are required to take MATH 1337, 1338 and 2339; STAT 2301, 2331 or 4340; ITOM 3306 (only for business majors/minors) or CSE 1340 or 1341 (Operations Research); and nine hours of additional courses in computer science: CSE 2341, 2353 and 3358. This degree also requires 24 hours in advanced economics, of which at least six hours must be at the 5000 or above level.

Requirements for the Five Year Joint Bachelor's and Master's Degree in Economics. The joint Bachelor's and Master's degree in economics provides an excellent opportunity for advanced undergraduates to begin pursuit of a Master's degree while still an undergraduate. Students with a cumulative G.P.A. of 3.0 overall and 3.3 in economics may apply for the program after the fall term of their junior year. STAT 2301 or equivalent and MATH 1309 or 1337 are required before being admitted into the program (MATH 1338 is recommended). Students must also take ECO 6381 (Analysis I), ECO 6382 (Analysis II), and ECO 5350 (Introduction to Econometrics) before or during their senior year. These nine hours of course work will also apply towards requirements for a Bachelor of Arts or a Bachelor of Science in Economics.

Students are eligible for the Master of Economics – Applied Track, Master of Economics – Law and Economics Track, and the Master of Economics – International Economics and Policy Track. All the requirements for the Master's and Bachelor's degrees must be met.

Recommended or required preparation for advanced courses is indicated within the course descriptions. Questions concerning specific courses and the undergraduate program in general should be directed to Economics Department personnel. Each student majoring in economics is urged to consult a departmental adviser periodically to review the student's degree plan and progress.

A program leading to graduation with departmental distinction is available.

Requirements for the Minor. Students majoring in other departments may obtain a minor in economics by completing ECO 1311, 1312, 3301, 3302 and two advanced courses at the 4000 or 5000 level with a G.P.A. of at least 2.00 in economics courses attempted. Non-lecture classes cannot be used toward an economics minor. No grade lower than C- will be counted.

Instead of a general minor in economics, a minor in a specialized field (International Economics, Public Economics, Labor Economics, Econometrics, Economic Growth and Development, Monetary Economics, Economics of Decision Making, and Economics of Industrial Organization) may be obtained if six hours of 4000- and 5000-level courses constitute one of the above eight fields currently approved by the Economics Department.

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

The Courses (ECO)

1310. Exploring Economic Issues. Discusses current economic issues and problems in a suitable manner for students not majoring in economics or related sciences. No pre-

requisites. No credit is allowed for students who have received credit for ECO 1311 or 1312.

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

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

3301. Price Theory (Intermediate Microeconomics). Considers more advanced problems of consumption, production and exchange than ECO 1311. *Prerequisites:* ECO 1311 and 1312.

3302. National Income and Employment (Intermediate Macroeconomics). Discusses alternative monetary and fiscal policies in the light of advanced macro theory. *Prerequisites:* ECO 1311 and 1312. *Corequisite:* ECO 3301.

3321. International Economic Policy. Examines the facts and theories of international trade and finance. Emphasis is placed on analyzing current issues such as the U.S. trade deficit, policies toward multinational firms, and harmonization of fiscal and monetary policies among countries. *Prerequisites:* ECO 1311 and 1312. *Note:* ECO 3321 cannot be taken after or concurrent with ECO 4357.

3355. Money and Banking. Analyzes central and commercial banking for students majoring in economics, business and related sciences. A student may not receive credit for both ECO 3355 and FINA 3330 (Money and Capital Markets). *Prerequisites:* ECO 1311 and 1312.

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

4351. Labor Economics. Survey of economic theory related to labor markets. Topics: Review of wage and employment theories, effect of unions, discrimination, wage structure and labor migration. *Prerequisite:* ECO 3301.

4357. International Trade. Analyzes national and international implications of the trade policies of nations, and the roles played by international organizations. *Prerequisite:* ECO 3301.

4358. International Macroeconomic Theory and Policy. (Formerly ECO 4356 International Finance and Investments.) Discusses current problems in international financial transactions by applying open-economy economic analysis. *Prerequisites:* ECO 3301 and 3302.

4361. Economics of Education. An economic analysis of the state of the U.S. educational system. Topics include trends in academic achievement, educational production functions, teacher labor markets and educational reforms. *Prerequisite:* ECO 3301 or equivalent course.

4366. Economics of the Public Sector. Focuses on theoretic principles useful in analyzing the role of government intervention. Topics include public goods, externalities, free rider problem, voting and social choice models, and public utilities. *Prerequisite:* ECO 3301.

4368. Foundations of Financial Economics. Applies the tools of economic analysis to financial decision-making. Topics include the time value of money, risk and return, dividend policy, hedging, mergers and acquisitions, and international financial manage-

ment. *Prerequisites:* ECO 3301, 3355, ACCT 2311 and STAT 2301 or ITOM 2305. Note: ECO 4368 cannot be taken after or concurrent with FINA 3320).

4371. Theory of Industrial Structure. (Formerly Structure of American Industry.) Development of American industry and antitrust policies. *Prerequisite:* ECO 3301.

4376. Special Topics in Economic History and Development. Economic principles are used to explore important and controversial questions. *Prerequisite:* ECO 3301.

4378. Financial Economics and Investment Behavior. An overview of investment concepts and an exposure to a range of investment alternatives that form an integral part of financial economics. *Prerequisite:* ECO 4368 or FINA 3320 or permission of instructor. Note: ECO 4378 cannot be taken after or concurrent with FINA 4320 or FINA 4326.

4382. Economics of Regulated Industries. Study of public utility, transportation and other regulated industries. *Prerequisite:* ECO 3301.

4385. Macroeconomics: Theory and Policy. Goes beyond "IS-LM" curves to most recent models using disequilibrium analysis, government budget constraint, rational expectations and other approaches. *Prerequisites:* ECO 3301 and 3302.

4386. Topics in Monetary Economics. An in-depth look at current topics in monetary theory and policy. *Prerequisites:* ECO 3301 and 3302.

4390. Independent Study in Economics. By arrangement with faculty sponsor and departmental Director of Undergraduate Studies. Requires eligible students to complete a 15- to 20-page paper under the supervision of the faculty sponsor and give an oral presentation of the paper to the faculty sponsor and the Director of Undergraduate Studies at the end of the term. *Prerequisites:* 2.5 G.P.A. in economics classes and completion of those classes appropriate for the paper.

4391. Development of Economic Doctrine. Analyzes the development of modern economics. *Prerequisites:* ECO 3301 and 3302.

4395. Economics Internship. By arrangement with faculty sponsor and departmental Director of Undergraduate Studies. Eligible students will perform an economic analysis of a particular economics problem at the interning firm or organization. The project will be approved by the student, the faculty sponsor, the Director of Undergraduate Studies, and the interning firm or organization prior to term registration. In addition, the student must complete a 15- to 20-page paper under the supervision of the faculty sponsor and give an oral presentation of the paper to the faculty sponsor and the Director of Undergraduate Studies at the end of the term. *Prerequisites:* 3.00 G.P.A. in economics classes and completion of those classes appropriate for the project.

4396. Business and Economic Forecasting Internship. Similar to ECO 4395 but with focus on an econometric analysis appropriate to the interning firm. *Prerequisites:* 3.00 G.P.A. in economics classes and ECO 5350 and 5375.

4397. Law and Economics Internship. Similar to ECO 4395 but with focus on the analysis of an issue with economic and legal dimensions appropriate to the interning firm or organization. *Prerequisites:* 3.00 G.P.A. in economics classes and completion of those classes appropriate for the project. Student must have a faculty sponsor and an interning firm or organization prior to enrollment.

4398. Departmental Distinction in Economics. By arrangement with departmental Director of Undergraduate Studies. Eligible students must complete a 15- to 20-page research paper under the supervision of the faculty sponsor and present the results of their research before a faculty committee at the end of the term. Student must have a faculty

sponsor prior to enrollment. *Prerequisites:* 3.7 G.P.A. in economics classes and 3.5 G.P.A. overall. Student must have a faculty sponsor prior to enrollment.

4399. Research/Reading Seminar in Economics. Senior seminar by special arrangement. *Prerequisites:* 3.5 G.P.A. in economics classes (or related major) and 3.0 G.P.A. overall, or permission of instructor.

5101, 5201, 5301. Topics (to be specified in title). *Prerequisites:* ECO 3301 and 3302 or permission of instructor.

5337. Urban Economics. Analyzes current issues in urban economics from the perspective of economic theory. *Prerequisite:* ECO 3301.

5340. Decision-Making Under Uncertainty. Provides a basis for the modeling of decision-making under conditions of incomplete information. *Prerequisites:* ECO 3302; MATH 1309 or 1337; and STAT 2301 or ITOM 2305.

5341. Strategic Behavior. This course will use the tools of game theory to examine the elements of strategic behavior of various economic agents, e.g., firms, consumers or government. *Prerequisite:* ECO 3301.

5350. Introductory Econometrics. Discusses the economic analysis of quantitative data and introduces computer analysis. *Prerequisites:* STAT 2301 or 4340 or ITOM 2305, MATH 1309 or 1337, and ECO 3301 or permission of instructor.

5355. Political Economics. In this course students will study both methods and applications of political economics models via theoretical and empirical investigation of various topics. *Prerequisite:* ECO 3301 or an equivalent course.

5353. Law and Economics. Provides a framework for and undertakes the analysis of the economic impact of the law. *Prerequisite:* ECO 3301 or equivalent.

5357. Economics of Human Resources. The economics of investment in human resources such as education and health. *Prerequisite:* ECO 3301. Recommended: ECO 4351.

5359. Economic Development: Microeconomic Perspectives. A microeconomic examination of various economic issues faced by developing countries. Topics include intrahousehold resource allocation, rural and urban labor markets, migration, and credit and insurance markets. *Prerequisite:* ECO 3301 or an equivalent course.

5360. Economic Development: Macroeconomic Perspectives. A macroeconomic examination of the economic issues faced by developing countries. Topics include national savings, capital accumulation, and international integration. *Prerequisites:* ECO 3301 and ECO 3302 or equivalent courses. [Note: Students who have taken ECO 5360 prior to Fall 2007 under its former title "Economic Development" may not retake this course.]

5361. Natural Resources and Energy Economics. Natural resource supply and demand, nonrenewable natural resources, fundamentals of the energy market. *Prerequisites:* ECO 3301 and 3302.

5362. Economic Growth. Examines the facts and theories of economic growth and technological change as well as the role of governments and markets in promoting or impeding economic growth. *Prerequisites:* ECO 3301 and 3302.

5365. Public Finance. Analyzes the financial managements of public bodies from local to federal governments. *Prerequisites:* ECO 3301. Recommended: ECO 3302.

5370. Cost-Benefit Analysis. The economic foundations of modern cost-benefit analysis in government and industry. *Prerequisite:* ECO 3301 or graduate standing.

5375. Economic and Business Forecasting. Presentation of methods used by economists to forecast economic and business trends and ways of evaluating the usefulness of these methods. *Prerequisite:* STAT 2301 or ITOM 2305 or equivalent course.

5385. Data Mining Techniques for Economists. A study of data mining techniques used by economists in the fields of applied economics, marketing and finance. These techniques include classification methods, affinity analysis, and data reduction and exploration methods. *Prerequisite:* ECO 5350 or an equivalent course.

ENGLISH

www.smu.edu/english

Professor Ezra Greenspan, Department Chair

Professors: Timothy Crusius, Dennis Foster (**Director of Graduate Studies**), Ross Murfin, Jack Myers, Jasper Neel, C.W. Smith, Willard Spiegelman, Steven Weisenburger;

Associate Professors: Richard Bozorth (**Director of Undergraduate Studies**), Steven Daniels, Darryl Dickson-Carr, David Haynes (**Director of Creative Writing**), Michael Holahan, John Lewis, Beth Newman, Nina Schwartz, Rajani Sudan, Bonnie Wheeler (**Director of Medieval Studies**); **Assistant Professors:** Angela Ards, Suzanne Bost, Michael Householder, Timothy Rosendale, Martha Satz, Lisa Siraganian;

Senior Lecturers: Carolyn Channell, Jo Goyne (**Director of First-Year Writing**), Pamela Lange, Robert Pocklington, Tom Stone; **Lecturers:** Jacqueline Bradley, Mallory Dubuclet, Diana Grumbles, Vanessa Hopper, Diana Howard, Rebecca Innocent, Mary Jackman, Harold Knight, Pauline Newton, Ashley O'Neill, Kristen Polster, Ona Seaney, Kelly Smith, Lori Ann Stephens, Vicki Tongate.

The Bachelor of Arts 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 pre-professional training for fields such as law, administration and business that require high proficiency in written and oral communication and in analytical thinking.

Requirements for the B.A. Degree. The major requires a minimum of 33 term hours of English courses, including no more than 12 hours at 2000-level and below (of these hours, no more than 3 hours at 1000-level) and at least 12 hours of 4000-level courses, distributed as follows:

A. Fundamentals (6 hours total):

ENGL 2311 Poetry *or* **ENGL 2314** Doing Things With Poems

ENGL 2315 Introduction to Literary Study

B. Reading Historically -- one course at the 3000- or 4000-level from each group (12 hours):

1. Medieval Literature (c. pre-1500)

2. Early Modern Literature (c. 1500-1775)

3. Literature in the Age of Revolutions (c. 1775-1900)

4. Modern to Contemporary Literature (c. 1900-present)

C. Criticism and Theory (3 hours)

D. Major Electives (12 hours)

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

4000-level courses in creative writing do not fulfill the 4000-level literature requirement.

A grade of C- or better must be earned in all courses fulfilling major requirements, and English majors must attain a minimum G.P.A. of 2.00 among all courses attempted for the major.

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

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

The Creative Writing Specialization within the English Major

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

ENGL 2391 Introductory Poetry Writing.

ENGL 2392 Introductory Fiction Writing.

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

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

ENGL 4391 Advanced Poetry Writing. *Prerequisite:* ENGL 3391 or permission of instructor.

ENGL 4392 Advanced Fiction Writing. *Prerequisite:* ENGL 3392 or permission of instructor.

ENGL 4393, 4395 Directed Studies in Poetry Writing. *Prerequisite:* Permission of instructor.

ENGL 4394, 4396 Directed Studies in Fiction Writing. *Prerequisite:* Permission of instructor.

Students may apply to individual instructors for Directed Study in Poetry or in Fiction only if they have completed 12 hours in Creative Writing courses, with at least nine of those hours in the genre in which the student is applying.

ENGL 4397 Craft of Poetry I. *Prerequisite:* ENGL 2391 or permission of instructor.

ENGL 4398 Craft of Fiction I. *Prerequisite:* ENGL 2392 or permission of instructor.

The Departmental Distinction Program. Open to seniors by invitation. To enter the program, a student ordinarily must earn an overall G.P.A. of at least 3.00 by the middle of the junior year, and a 3.50 average or better in courses fulfilling requirements for the major. Candidates for distinction must take ENGL 5310 Seminar in Literary Theory in the fall of the senior year. Candidates completing ENGL 5310 with a grade of B+ or better will then choose

from the following options: ENGL 5381 Independent Studies (culminating in a Senior Thesis); *or* ENGL 6390-97 Graduate Seminar in English (requires permission of instructor); *or* (for creative writing specialists only) ENGL 4393, 4394, 4395 or 4396 Directed Studies in Poetry Writing or Directed Studies in Fiction Writing. Candidates must earn a *B+* or better in the option selected, and attain a 3.50 G.P.A. in all courses counting towards the major and distinction. English 4393-4396, 5381, 5310 may not be used to satisfy the 12 hours required in 4000-level courses. A minimum of 36 hours is required to graduate with Departmental Distinction.

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

The Courses (ENGL)

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

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

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

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

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

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

Note: Courses numbered 1320-1380 have no prerequisites.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2311. Poetry. Analysis, interpretation and appreciation of poetry, with attention to terms

and issues relevant to the genre.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3322. Guilty Pleasures. Examination of classic and not-so-classic detective fiction from Sophocles to the present, focusing primarily on 19th- and 20th-century British and American traditions. *Prerequisite:* ENGL 1301 or 2305 or departmental approval.

3329 (CF 3302, MDVL 3329). The World of King Arthur. Study of Britain's great-

est native hero and one of the world's most compelling story stocks: the legends of King Arthur and the Knights of the Round Table.

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

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

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

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

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

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

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

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

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

3347. Topics in American Literature in the Age of Revolutions. Study of a theme, issue or topic in American literature from c. 1775-1900, varying by term. May be repeated for credit under different subtitle.

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

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

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

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

for credit under different subtitle.

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

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

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

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

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

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

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

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

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

3370. Special Topics. Examination of a subject that includes material from a range of historical periods. Examples could include “Pastoral Literature,” “Shakespeare in England and India,” “Irony, Satire and Politics.” Topics vary by term; may be repeated for credit under different subtitle.

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

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

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

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

authors working in Paris.

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

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

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

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

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

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

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

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

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

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

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

Twelve hours of English, including ENGL 2311 or 2314 and including ENGL 2315 (excluding 1300, 1301, 1302, 2302, 2305), or instructor's approval is prerequisite for all courses numbered 4310 through 4389.

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

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

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

4323. Chaucer. Advanced studies in the poetry of Geoffrey Chaucer in relation to

historical contexts, medieval poetics and Middle English language. May be repeated for credit under different subtitle.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5378. Linguistics: General. Introduction to the study of language as a part of human c u l t u r e .

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

ENVIRONMENTAL SCIENCE

www.smu.edu/esp

Coordinating Committee: Associate Professor and Director Bonnie Jacobs
(Geological Sciences); **Professor** Michael Lattman (Chemistry); **Professor** Larry
Ruben

(Biological Sciences); **Professor** Robert Gregory (Geological Sciences).

Chemistry: Professors: Edward Biehl, John Buynak, Michael Lattman, John Maguire, Patty Wisian-Neilson; **Associate Professors:** Werner Horsthemke, Mark Schell, David Son; **Assistant Professor:** Ling Hua; **Geological Sciences: Professors:** David Blackwell, Robert Gregory, Eugene Herrin, Louis Jacobs, Brian Stump, John Walther, Crayton Yapp; **Assistant Professor:** Neil J. Tabor; **Biological Sciences: Professors:** Christine Buchanan, William Orr, John Ubelaker, Steven Vik; **Associate Professor:** Richard Jones; **Assistant Professors:** Robert Harrod, Pia Vogel, James Waddle.

The natural systems that constitute the Earth's environment are in continuous mutual interaction. These interactions occur on spatial scales that range from microscopic to global and on temporal scales that range from fractions of a second to millions of years. Scientific efforts to understand how the activities of humans affect the workings of such a complex arrangement must properly involve the identification and study of the fundamental processes operating at present in the Earth's environment. Furthermore, to apply such knowledge with skill, insight and perspective, information must also be acquired on the extent to which ancient environmental conditions on the Earth may have differed from those observed today, and how such changes affected life on the planet. An intellectual and practical scientific problem of such vast scope must be approached in an interdisciplinary manner. This interdisciplinary requirement is important not only for students who will become professional environmental scientists, but also for those who want a solid scientific foundation for post-graduate training in environmental law, public policy, business and other fields.

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

A total of 122 credits is required for a Bachelor of Science in Environmental Science. Included are 30 credits in General Education, 24 credits as Free Electives (can be 27 credits if the Information Technology requirement is satisfied with the Environmental Sciences Program), 50 credits of core courses, and 18 credits of Environmental Science electives taken with an emphasis in Chemistry, Earth Science or Biology.

**Core Courses
(50 course credits)**

Biology (7 credits):

BIOL 1402 Introductory Biology II

BIOL 3307 Ecology

Chemistry (15 or 16 credits):

CHEM 1303 General Chemistry I

CHEM 1113 General Chemistry I Laboratory

CHEM 1304 General Chemistry II

CHEM 1114 General Chemistry II Laboratory

CHEM 3371 Organic Chemistry I

CHEM 3117 Organic Chemistry I Laboratory

and either

CHEM 3372 and 3118 Organic Chemistry II *and* Organic Chemistry II Laboratory *or*

CHEM 3351 Quantitative Analysis

Geological Sciences (11 credits):

GEOL 1301 Earth Systems *or*

GEOL 1315 Introduction to Environmental Sciences

GEOL 3451 Earth Materials I

GEOL 3452 Earth Materials II

Mathematics (6 credits):

MATH 1337 Calculus with Analytic Geometry I

MATH 1338 Calculus with Analytic Geometry II

Physics (8 credits):

PHYS 1303 Introductory Mechanics *and*

PHYS 1105 General Physics Laboratory I *or*

PHYS 1307 General Physics I *and*

PHYS 1105 General Physics Laboratory I *and*

PHYS 1304 Introductory Electricity and Magnetism *and*

PHYS 1106 General Physics Laboratory II *or*

PHYS 1308 General Physics II *and*

PHYS 1106 General Physics Laboratory II

Environmental Science (3 credits):

GEOL 3363 Environmental Geology Seminar

**Chemistry Emphasis, Upper-division Courses
(18 credit hours)**

Required (9 or 10 credits):

CHEM 3372 *and* **3118** Organic Chemistry II *and* Organic Chemistry II Laboratory *or*

CHEM 3351 Quantitative Analysis

CHEM 5381 Physical Chemistry *or* **5383** Physical Chemistry I

Electives (choose 9 or more credits):

CHEM 4397 Research

CHEM 5390 Environmental Chemistry

GEOL 3366 Environmental Geology and Geochemical Cycles

GEOL 5384 Hydrogeology

GEOL 5386 Geochemistry

GEOL 3353 Modern and Ancient Climates

ME 5317 Groundwater Hydrology and Contamination

**Earth Sciences Emphasis, Upper-division Electives
(choose 18 credit hours)**

CHEM 3351 Quantitative Analysis

CHEM 3372 *and* **3118** Organic Chemistry II *and* Organic Chemistry II Laboratory

CHEM 5381 *or* **5383** Physical Chemistry *or* Physical Chemistry I

CHEM 5390 Environmental Chemistry

GEOL 3353 Modern and Ancient Climates

GEOL 3360 Process Geomorphology

GEOL 3366 Environmental Geology and Geochemical Cycles

GEOL 3369 Paleobiology

GEOL 3454 Structural Geology

GEOL 3472 Principles of Sedimentation

GEOL 4296 *and/or* **4298** Integrative Research (up to 4 credits) *or* **GEOL 4321** internship in geoscience

GEOL 4390 Introduction to Geophysical Prospecting

GEOL 5368 Paleocology

GEOL 5384 Hydrogeology

GEOL 5386 Geochemistry

ME 2342 Fluid Mechanics

ENCE 3341 Introduction to Solid and Hazardous Waste Management
STAT 2331 or **4340** Introduction to Statistical Methods or Statistical Methods for Engineers and Applied Scientists

**Biology Emphasis
(18 credit hours)**

Required (4 credits)

BIOL 1401 Introductory Biology I

Electives (choose 14 or more credits)

BIOL 3303 Evolution

BIOL 3304 Genetics

BIOL 3306 Physiology

BIOL 3342 Plant Kingdom

BIOL 3343 Field Botany (Taos)

BIOL 3347 Systematic Botany (Taos)

GEOL 3353 Modern and Ancient Climates

BIOL 3354 Parasitology

BIOL 3357 Biology of the Invertebrates

BIOL 3403 Microbiology

BIOL 5166 Vertebrate Anatomy Lab (Corequisite **BIOL 5366**)

BIOL 5366 Vertebrate Anatomy and Origins (Corequisite **BIOL 5166**)

BIOL 5110 Biological Chemistry Lab (Co- or Prerequisite **BIOL 5310**)

BIOL 5311 Biological Chemistry: Metabolism

ETHNIC STUDIES

www.smu.edu/dedman/majors/ethnicstudies

Professor Kenneth Hamilton, **Director**

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

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

Requirements for Majors and Minors. Under Ethnic Studies, the following options are offered:

- b The major leading to the Bachelor of Arts in Ethnic Studies with specialization in either African and African-American Studies (33 hours) or Mexican-American Studies (34 hours).
- b The major leading to the Bachelor of Science in Ethnic Studies with specialization in either African and African-American Studies (36 hours) or Mexican-American Studies (37 hours).
- b The minor in African and African-American Studies (18 hours).
- b The minor in Mexican-American Studies (19 hours).

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

sultation with the director.

I. **Bachelor of Arts.** The B.A. option focuses more on the humanities than the social sciences and, consequently, requires less work in methodology and statistics.

A. **Foundation.** Six hours required of all students majoring in Ethnic Studies.

ETST 2301 Race and Ethnicity in the United States (Co-listed **SOCI 3305** and **CFA 3310**)

SOCI 3370 Minority-Dominant Relations

B. **Basic Courses.** Eighteen hours comprised of the minor in African and African-American Studies, and 19 hours comprised of the minor in Mexican-American Studies form the basis of the Ethnic Studies major.

1. African and African-American Studies minor (nine of the 18 hours required must be at the 3000 level or above):

a. Nine hours of core courses are required.

HIST 2392 Modern Africa

HIST 3313 African Americans in the United States, 1607 to 1877

HIST 3314 African Americans in the United States, 1877 to the Present

b. Nine hours of additional basic courses, of which six must be outside History.

ANTH 3314 Peoples of Africa

ARHS 3390 Traditional Arts of Africa

ENGL 3362 African-American Literature

HIST 2391 Africa to the 19th Century

HIST 3304 Blacks and the Civil Rights Movement

HIST 3378 Problems in African History

HIST 3388 The African-American Urban Experience, 1865-1980

HIST 5341 Seminar in American History: African Slavery in the U.S.

MUHI 3340 Jazz: Tradition and Transformation

2. Mexican-American Studies minor (10 of the 19 hours required must be at the 3000 level or above):

a. Ten hours of core courses are required.

ETST 4352 Conversations and Community (Co-listed SPAN 4352)

HIST 3324 The Mexican Americans, 1848 to the Present

SOCI 3372 Chicanos in the Southwest

SPAN 1401 Beginning Spanish (or higher level)

b. Nine hours of additional basic courses selected from the following:

ANTH 3312 Meso-American Archaeology

ARHS 3383 The Ancient Maya

ARHS 3385 The Aztecs Before and After the Conquest: Mesoamerica, 1400-1600

ENGL 3363 Chicana/Chicano Literature

FL 3306 The Heart of Aztlán: Chicano Literature of the Southwest

HIST 3305 The Hispanos of New Mexico, 1848 to the Present

HIST 3308 History of Hispanics in the U.S. through Film

HIST 3382 History of Mexico

HIST 5330, 5331 Seminar in Mexican-American History

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

D. **Supporting Courses.** Six hours of other courses related to ethnicity must be selected from the following:

ANTH 3353 Indians of North America

ANTH 3361 Language in Culture and Society

ANTH 3368 (SOCI 3368) Urban Life: A Cross-Cultural Perspective

ENGL 1365 Literature of Minorities

ENGL 3354 Non-Western Culture and Literature

ENGL 3365 (CF 3398) Jewish-American Literature and Culture

ETST 2305 Internship in Ethnic Studies

HIST 2380 Ethnic Regions in the Western World

PLSC 4337 Civil Rights

RELI 3324 The Jewish Experience in America

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

SOCI 3311 Qualitative Research Methods

STAT 2301 Statistics for Modern Business Decisions *or*

STAT 2331 Introduction to Statistical Methods

The Courses (ETST)

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

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

4352 (SPAN 4352). Conversations and Community. Advanced Spanish course that brings oral and written language to the center of students' learning by bringing them in contact with native Spanish speakers from a variety of Dallas communities. Field work, away from campus, will include a maximum of two hours per week in addition to the required three contact hours in the classroom. Prerequisites: SPAN 2401 and approval of instructor for language majors. Approval of instructor for all other candidates.

EVENING DEGREE PROGRAM **www.smu.edu/dedman/eveningstudies**

The Evening Degree Program offers multidisciplinary Bachelor of Humanities (B.H.) and Bachelor of Social Sciences (B.S.S.) degrees for students who wish to complete their undergraduate education in the evening on a part-time basis. Applicants must have earned at least 45 term hours of transferable course work with a 2.50 G.P.A., including the Written and Mathematical Sciences Fundamentals requirements of the General Education Curriculum. In addi-

tion, applicants must meet the University's admission requirements for transfer students.

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

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

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

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

For more information concerning admission and program requirements, contact the Dedman Dean's Office, Southern Methodist University, 214 Dallas Hall, PO Box 750235, Dallas TX 75275-0235; phone 214-768-6483.

FOREIGN LANGUAGES AND LITERATURES

flc.smu.edu

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

French: Associate Professor: William Beauchamp; **Assistant Professors:** David Aldstadt, Dayna Oscherwitz; **Senior Lecturer:** Rita Winandy; **Lecturers:** Gwen Aaron, Denis Bettaver, Paola Buckley, Heather Garrett-Pelletier, Martine Kincaid; **Adjunct Lecturer:** Kathleen Hugley-Cook; **German: Associate Professors:** Gordon Birrell, Marie-Luise Gättens, Jutta Van Selm; **Hindi: Adjunct Lecturer:** Manju Bansal; **Italian: Associate Professor:** Vincenzo DeNardo; **Lecturers:** Brandy Alvarez, Damiano Bonuomo, Teresa Brentegani; **Japanese: Lecturer:** Keiko Schneider; **Latin: Adjunct Lecturer:** Patti Rawlins; **Russian: Adjunct Lecturer:** Tatiana Zimakova; **Spanish: Associate Professor:** Olga Colbert; **Assistant Professors:** Denise DuPont, Luis Maldonado-Peña, Francisco Morán, Alberto Pastor, Elizabeth Russ, Gabriela Vokí'c; **Senior Lecturers:** Verónica León, Betty Nelson; **Lecturers:** Susana Fernandez-Solera, George Henson, Linda Koski, Leticia McDoniel, Angie Morón-Nozaleda, Roger Parks, Luis Polanco, Milagros Sánchez-García, Jacqueline Wald, Daniel Wiegman; **Adjunct Lecturer:** Cristina Gonzales, Nywa Pinilla.

The B.A. degree is offered in French, German, Italian Area Studies, Spanish and Foreign Languages.

Academic minors are available in Chinese, French, German, Italian, Italian Area Studies, Japanese, Russian Area Studies and Spanish.

Requirements for Departmental Distinction

1. Overall 3.50 G.P.A. by the middle of the junior year.

2. Overall 3.75 G.P.A. in the major by the middle of the junior year.
3. Invitation of area faculty after the area as a whole has discussed the student's candidacy.
4. Two extra courses beyond the requirements for the major. One course must include a major research paper, to be undertaken and completed in the first term of the candidate's senior year.

B.A. in Foreign Languages

Students wishing to specialize in two foreign languages may receive the B.A. degree in Foreign Languages by completing the requirements for the minor plus two additional advanced courses in Language I, and by completing the requirements for the minor in Language II. Courses are to be selected in consultation with the major adviser in Language I. Minors in area studies may not be applied to this major. Language I must be chosen from French, German, Italian, and Spanish.

Chinese

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

CHIN 2401 and 2402

Two courses from the following:

CHIN 3311, 3312, 4381 and 4382

One course from the following list of supporting courses:

CHIN 4381, CHIN 4382, FL 3310, 3312, 3325; HIST 3393, 3398; RELI 3377, RELI 3378

Students taking CHIN 4381 and 4382 for the language component of the requirement must take another course from the list of supporting courses.

Students testing into any course above 2402 will have to earn nine credit hours in residence (six credit hours in Chinese language and three credit hours in Chinese culture) in order to receive the minor in Chinese.

The Courses (CHIN)

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

2401, 2402. Intermediate Chinese. Enhances basic language skills learned in Beginning Chinese but focuses on language proficiency, particularly in the areas of description, narration, correspondence and comparisons based on situational context. Students attend four weekly classes. Video and audio materials are used. Four credits per term. *Prerequisite for 2401:* C- or better in CHIN 1402 or permission of area chair. *Prerequisite for 2402:* C- or better in CHIN 2401 or permission of area chair.

3311. Advanced Chinese. Emphasizes the requirement of skills in Mandarin Chinese through the study of selected topics in contemporary Chinese culture and society. Students develop the ability to express themselves in sustained oral and written forms. *Prerequisite:*

Beginning and Intermediate Chinese.

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

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

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

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

Foreign Literature Courses in English

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

FL 3310 Transnational Chinese Cinema

FL 3312 Women in Modern China

FL 3325 Perspectives on Modern China

Danish (DNSH)

1301. Danish Language, Level One. Three-hour lecture, beginning Danish, level one, in connection with SMU-in-Copenhagen program (offered in Copenhagen only).

French

All courses are conducted in French.

Requirements for the B.A. Degree in French: Twenty-eight credit hours in advanced French courses beginning at the 3000 level. Courses are to be selected in consultation with the major adviser and must include the following: FREN 3455, 3356, 4370; any two courses chosen from among 4371, 4372, 4373, 4374, 4375, 4376; plus six hours of 5000-level courses and six elective hours at either the 4000 or 5000 level. Study with SMU-in-Paris and/or SMU-in-the-South of France is strongly recommended.

Requirements for the Minor in French: A total of 20 hours, including FREN 2401 or the equivalent, plus 16 advanced hours: FREN 3455, 3356, 4370 and two additional courses at the 4000 level.

The Courses (FREN)

Language Courses

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

2201. France Today: Culture, Society, Daily Life. In conjunction with FREN 2401, a systematic exploration of diverse aspects of French life, involving both classroom

study and on-site investigation. Emphasis on contextual language acquisition, both written and oral. *Prerequisite:* Permission of program director. (SMU-in-the-South of France only)

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

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

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

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

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

4355. Advanced Spoken French. Practice in styles and genres of spoken French: exposé, literary explication, persuasion, recitation, formal versus informal conversation. *Prerequisites:* C- or better in FREN 3455 and 3356.

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

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

Literature and Culture Courses

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

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

and 3356.

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

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

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

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

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

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

5180. Independent Study.

5320, 5321. Literary Periods. The study of a variety of authors and works with respect to the ways in which they define and reflect the literary, political and social aspects of a given historical period. Specific topics vary. *Prerequisites:* C- or better in all courses taken from the following: FREN 4370; either 4371 or 4372; either 4375 or 4376.

5334, 5335. Genre Studies. The examination of the works of several authors as a means of understanding the nature and evolution of a particular genre. Specific topics vary. *Prerequisites:* C- or better in all courses taken from the following: FREN 4370; either 4371 or 4372; either 4375 or 4376.

5344, 5345. Literary Movements. The exploration of the conventions that shape a specific movement through a reading of representative texts by various authors. Specific topics vary. *Prerequisites:* C- or better in all courses taken from the following: FREN 4370; either 4371 or 4372; either 4375 or 4376.

5350, 5351. Problems in French Literature. The definition of a particular theme as elaborated by a group of writers, usually covering different time periods and genres. Specific topics vary. *Prerequisites:* C- or better in all courses taken from the following: FREN 4370; either 4371 or 4372; either 4375 or 4376.

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

5365, 5466. Topics in French and Francophone Cinema. A seminar in French and Francophone film studies. Topic varies. *Prerequisites:* C- or better in all courses taken from the following: FREN 4370; either 4371 or 4372; either 4375 or 4376. FREN 4365, recommended.

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

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

Foreign Literature Courses in English

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

FL 3359 Masculinities: Literary Images and Perspectives.

FL 3361 Special Topics: French Literature in Translation. (SMU-in-Paris only)

FL 3363 (CF 3347, WS 3347) Figuring the Feminine.

FL 3365, 3366 Special Topics: French Literature in Translation.

German

All courses are conducted in German.

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

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

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

Requirements for the Minor in German: Eighteen term hours of German as follows:

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

German Language Courses (GERM)

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

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

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

mission of area chair.

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

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

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

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

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

German Literature Courses

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

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

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

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

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

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

4350. History, Culture and Identity in Post-War German Film. An examination

of German films since 1945 from both German states, ending with the depiction of the unification in film, with continued emphasis on improvement of advanced German language skills. *Prerequisite*: C- or better in GERM 3320.

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

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

5380. Directed Studies. Permission of department.

Culture and Literature Courses in English

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

FL 3369 Perspectives on Modern Germany

Hindi (HIN)

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

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

Italian

All courses are conducted in Italian unless otherwise noted.

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

1. ITAL 3357 (Italian Grammar and Composition) and ITAL 3373 (Italian Culture).
2. Nine hours in advanced courses at the 4000 level including ITAL 4324 (Contemporary Italian Literature).
3. Six hours of Italian literature-in-translation courses or FL courses in Italian culture or Italian cinema.
4. Six hours of approved area-studies courses.

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

Requirements for the Minor in Italian. Twenty term hours, including ITAL 2401, 2402 and 12 advanced hours as follows:

1. ITAL 3357.
2. ITAL 3373.
3. Two additional advanced Italian courses (4000-level) selected in consulta-

tion with the adviser.

Requirements for the Minor in Italian Area Studies. Twenty term hours, including ITAL 2401, 2402, and the following advanced or supporting courses:

1. ITAL 3357
2. ITAL 3373
3. One additional advanced Italian course (4000-level) chosen in consultation with the adviser
4. One area-studies course chosen in consultation with the adviser from the following:

FL 2395, 3390, 3391, 3392, 3393

ARHS 3312, 3314, 3331, 3332

HIST 3351, 3358, 3359, 3361, 3365, 3366, 3376

The Courses (ITAL)

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

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

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

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

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

Literature Courses

4323. Modern Italian Literature II. From the latter half of the 19th century to World War I. Realism, Decadentism, and the Grotesque. Authors studied are Verga, D'Annunzio, Pirandello. *Prerequisite: ITAL 2401.*

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

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

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

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

Italian Culture and Literature Courses in English

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

FL 2201 Italy Today: Contemporary Italian Culture and Institutions.

FL 2395 Italian Culture.

FL 3390 (CTV 3390) Italian Cinema.

FL 3391 Special Topics: Italian Literature in Translation.

FL 3392 Special Topics: Italian Literature in Translation.

Japanese

Requirements for the Minor in Japanese: 17 term hours as follows:

- | | |
|--|---------|
| 1. Intermediate Japanese (2401, 2402) | 8 hours |
| 2. Advanced Japanese (3311, 3312) | 6 hours |
| 3. One course from the following: ARHS 3394,
JAPN 4381, PLSC 3346 | 3 hours |

The Courses (JAPN)

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

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

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

4185, 4285, 4385. Internship in Japanese. Offers students experience in organizations where knowledge of Japanese and the cultures of Japanese-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. *Prerequisites:* Junior or senior standing; an overall G.P.A. of 3.0 or higher; G.P.A. in Japanese of 3.30 or higher; sponsorship of a professor and of the organization, agency or corporation.

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

Latin (LATN)

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

2311, 2312. Second-Year Latin. Readings from Cicero, Livy, Ovid and Pliny. Passages from the Vulgate, excerpts from medieval authors. *Prerequisite for 2311:* C- or better in LATN 1402. *Prerequisite for 2312:* C- or better in LATN 2311.

3185, 3285, 3385. Internship in Latin. Offers students experience in organizations or institutions where knowledge of Latin is relevant: museums, libraries, historical archives,

etc. *Prerequisites:* Junior or senior standing; an overall G.P.A. of 3.0 or higher; G.P.A. in Latin of 3.3 or higher; sponsorship of a professor and of the organization, agency or institution.

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

Russian

Requirements for the Minor in Russian Area Studies: 15 term hours, including RUSS 2341, 2351, RUSS 3341 (optional)

At least one upper level course from:

Culture:

FL 3323, RUSS 3323, FL 3331, RUSS 3351, RUSS 3361, RUSS 3362

One or two (two if RUSS 3341 is not chosen as the third language course) of the following upper-level courses taught in English:

History:

HIST 3340, HIST 3341, HIST 5367

Political Science:

PLSC 3351, PLSC 3358, PLSC 3359 (CFA 3359), PLSC 3365, PLSC 4358, PLSC 4384.

The Courses (RUSS)

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

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

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

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

3304. Russian Grammar Practicum. (Russia, summer)

3323. Practicum in Russian Culture. (St. Petersburg, summer)

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

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

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

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

4380, 4381. Directed Studies.

Russian Culture and Literature Courses in English

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

FL 2343 After Communism.

FL 3323 (HIST 2323). Russian Culture.

Spanish

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

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

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

Requirements for the Minor in Spanish. SPAN 2401 or the equivalent; SPAN 3358; at least one but not more than two courses chosen from SPAN 3311, 3312, 3313, 3355 or 4352, 4355; and other advanced course(s) for a total of 16 hours.

Prerequisites for Advanced Courses. Prerequisite for 3000-level courses: SPAN 2312 or 2401, or as stated in individual course descriptions.

Prerequisite for 4000-level courses: see individual course descriptions.

Prerequisite for 5000-level courses in literature: SPAN 4395.

The Courses (SPAN)

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

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

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

2401. Intermediate Spanish. The third term or intermediate level will continue to strengthen the four language skills with added emphasis on reading and writing. Students attend two one-hour fundamentals classes plus three one-hour practice sessions per week. Computer, video and audio assignments in the Foreign Language Teaching Technology Center are required. Four credits per term. All classes are conducted in Spanish. *Prerequisite:* C- or better in SPAN 1402.

3310. Readings in Spanish and Spanish American Literature. Refinement of oral and written proficiency based on extensive reading and discussion of literary texts. *Prerequisite:* C- or better in SPAN 2401.

3311. Conversation and Composition: Peninsular Culture. Focus on improving linguistic proficiency within the context of studying Spanish Peninsular cultures. Course content varies; may include Peninsular film, music, art, etc. *Prerequisites:* C- or better in SPAN 2401 or equivalent.

3312. Conversation and Composition: Mexican Culture. Focuses on improving linguistic proficiency within the context of studying Latin American culture. Course content varies; may include Mexican film, music, art, food, etc. *Prerequisites:* C- or better in SPAN 2401 or equivalent.

3313. Conversation and Composition: Latin American Culture. Focuses on improving linguistic proficiency within the context of studying Latin American culture. Course content varies; may include Latin American film, music, art. *Prerequisites:* C- or better in SPAN 2401 or equivalent.

3355. Spanish Conversation. An advanced course for majors and non-majors intended to increase active command of the language. Limited enrollment. *Prerequisite:* C- or better in SPAN 2401 or equivalent. Not for students who score "Advanced" on Oral Proficiency exam. (See SPAN 4355.)

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

3358. Advanced Spanish Grammar. A thorough study of Spanish grammar. Practice in writing short compositions. Limited enrollment. *Prerequisites:* C- or better in SPAN 2401 or equivalent.

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

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

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

4352 (ETST 4352). Conversations and Community. Advanced Spanish course that brings oral and written language to the center of students' learning by bringing them in contact with native Spanish speakers from a variety of Dallas communities. Field work, away from campus, will include a maximum of two hours per week in addition to the required three contact hours in the classroom. *Prerequisites:* C- or better in SPAN 2401 and approval of instructor for language majors. Approval of instructor for all other candidates.

4355. Advanced Spoken Spanish. An advanced course in spoken Spanish for those students who score advanced to superior on a departmentally administered oral exam based on ACTFL Oral Proficiency levels. (Students who score below "Advanced" level on the departmental exam may enroll in SPAN 3355.) *Prerequisite:* C- or better in SPAN 2401 and approval of the instructor. Not open to students who have taken SPAN 3355. Limited enrollment.

4357. Introduction to Spanish Linguistics. What is language? How do languages function? How is human language different from other communication systems? Focusing on Spanish, this course also explores language acquisition, language contact and bilingualism.

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

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

4395. Introduction to Hispanic Literature. Study of the tools necessary for analysis and understanding of literature. Application of these tools through reading of Hispanic texts. *Prerequisite:* C- or better in SPAN 3358 or permission of the department. Limited enrollment. Meets Perspectives requirement for Literature and Human Diversity corequirement.

General Survey Courses

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

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

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

5316. Spanish American Literature Since 1888. Literary figures and trends from Modernism to the present. Meets Human Diversity corequirement. *Prerequisites:* C- or

better in SPAN 4395.

5317. The Literature of Mexico. Readings and discussions of the works of major Mexican writers. Meets Human Diversity corequirement. *Prerequisites:* C- or better in SPAN 4395.

Period Survey Courses

5320. The Renaissance and Golden Age: Drama. A study of the early development of Spanish drama and of the flourishing of the theater with Lope de Vega, Calderón de la Barca, and their contemporaries. *Prerequisites:* C- or better in SPAN 4395.

5321. The Renaissance and Golden Age: Prose Fiction. An exploration of the development of Spanish narrative through various modes of idealism, realism and self-reflection. Readings include works from Cervantes, Zayas, their contemporaries, and their literary predecessors. *Prerequisites:* C- or better in SPAN 4395.

5323. Nineteenth-Century Prose Fiction of Spain. Major prose writers of the Realistic and Naturalistic movements in the context of 19th-century political, social and economic development. *Prerequisites:* C- or better in SPAN 4395.

5324. Twentieth-Century Poetry and Drama. Poetry and theater of the generations of 1898 and 1927 and more.

5325. Twentieth-Century Peninsular Prose Fiction. Examination of significant individuals, movements, themes and works of 20th century Spanish prose fiction, e.g., generation of 1898, Exile of 1939, Francoism, Transition to Democracy, Social Realism, Post-modernism, etc.

Genre Studies

5334. The Novel of the Post Civil War Period. The development of the novel and short story in Spain from 1940 to the present. Readings from Cela, Delibes, Sánchez Ferlosio, Goytisolo, etc. *Prerequisites:* C- or better in SPAN 4395.

5335. Genre Studies in Spain.

5336. The Spanish-American Novel. The evolution of the Spanish-American novel and analysis of master works of the 19th and 20th centuries. Meets Human Diversity corequirement. *Prerequisites:* C- or better in SPAN 4395.

5337. The Spanish-American Essay. Students explore the intellectual climate of Spanish America in the last two centuries as revealed in the works of famous essayists such as José Martí and Octavio Paz. Meets Human Diversity corequirement. *Prerequisites:* C- or better in SPAN 4395.

5338. The Spanish-American Short Story. Evolution of the short story in Spanish America: Palma, Quiroga, Borges, Carpentier, Asturias. Cortázar, Rulfo, García Márquez and others. Meets Human Diversity corequirement. *Prerequisites:* C- or better in SPAN 4395.

5339. Spanish-American Poetry. Major Spanish American poets, with emphasis on the 20th century: Octavio Paz, Nicolás Guillén, Gabriela Mistral, Pablo Neruda and others. Meets Human Diversity corequirement. *Prerequisites:* C- or better in SPAN 4395.

Advanced Courses in Linguistics

5340. The Structure of Spanish. Explication of Spanish syntactic structures using conventional and more recent treatments of Spanish grammar and current developments in syntactic theory. Development of skills in analyzing Spanish syntax. *Prerequisites:* C- or better in SPAN 4395.

SPAN 5341. Spanish Phonetics and Phonology. Survey of phonetic (acoustic, physical) and phonological (distributional) properties of the Spanish sound system. Com-

parison with the English sound system. Introduction to phonologically conditioned dialectal variation in the Spanish-speaking world. *Prerequisite:* C- or better in SPAN 4357.

Thematic Courses

5360. The Concept of Honor in Spanish Literature. An exploration of the Spanish concept of Honor, especially the way it shapes Hispanic identity over time and distance and across social and gender boundaries. Lecture, 3 hours. *Prerequisite:* C- or better in SPAN 4395.

5361. Don Quixote: The Idea, The Character, The Book. An exploration of Cervantes's masterpiece, *Don Quixote*, and its influence on art and society. *Prerequisite:* C- or better in SPAN 4395.

5365. Contemporary Spanish Women Writers. Explores constructions of gender and identity in contemporary Spanish literature by women. Written texts, music, film and documentary will combine to offer multiple perspectives on the subject. Lecture, 3 hours. *Prerequisite:* C- or better in SPAN 4395. Meets Human Diversity corequirement.

5370. Rewriting Discovery and Exploration in the Spanish Borderlands. An examination of shifts in the articulation of discovery and exploration in writings treating the northern frontier of New Spain during the mid to late 16th century. *Prerequisite:* C- or better in SPAN 4395.

5375 Contemporary Fiction by Latin American Women Writers. Explores constructions of gender and identity in 20th-century fiction by Latin American women. Novels, short stories, film and critical texts will be examined. *Prerequisite:* C- or better in SPAN 4395.

Other Literary Studies

5380, 5381. Tutorial for Juniors and Seniors. Special project arranged by the student with the help of a faculty adviser and the approval of the chair of the department.

Culture and Literature Courses in English

(See Course Descriptions following.)

FL 3303 Spanish Civilization.

FL 3305 Special Topics: Latin American Literature in Translation.

FL 3306 The Heart of Aztlán: Chicano Literature of the Southwest.

Courses in English on Linguistics and World Literatures and Cultures

FL 2201. Italy Today: Contemporary Italian Culture and Institutions. Overview of contemporary Italian society, institutions and traditions, from the role of the Church to the fashion industry. *Prerequisite:* Concurrent enrollment in ITAL 1401, 1402 or 2401 with approval of the instructor.

FL 2343. After Communism. Examines changes in Russian and Eastern European culture since the mid-1980s, when openness and restructuring prepared the ground for the fall of the Soviet Union.

FL 2395. Italian Culture. Significant aspects of Italian culture and thought, beginning with the age of Dante, are presented from poetry, prose, drama, journalism, architecture, the fine arts, music and film.

FL 3303. Spanish Civilization. Significant aspects of Spanish culture are presented and illustrated by examples from Spain's history, music, art, architecture, literature, folklore and contemporary life. Course may be taken as SPAN 3373 if the student does his or her work in Spanish. (Offered at SMU-in-Spain.)

FL 3305. Special Topics: Latin American Literature in Translation. Reading of masterworks of Latin American authors. Readings will vary from term to term and will be selected for their relevance to a particular period, genre or theme. Meets Human Diversity corequirement.

FL 3306. The Heart of Aztlán: Chicano Literature of the Southwest. A study of the Chicano/Mestizo cultural identity in the Southwest, the course includes readings from selected contemporary authors as well as from the early recorded contacts between Native Americans and their European conquerors. Meets Perspectives requirement for Literature and Human Diversity corequirement.

FL 3307 (CFA 3329). The Belle Époque and the Birth of Modernity. Through a series of lectures, readings and visits, the course will present an in-depth study of society, culture, art and literature in Paris and in the provinces. (Offered at SMU-in-Paris.)

FL 3308. Introduction to General Linguistics. This course is an introduction to the field of linguistics, which is concerned with the study of human language in the broadest sense. Meets Perspective requirement for literature.

FL 3310 (CF 3390). Transnational Chinese Cinema. Introduces students to films produced in the People's Republic, Taiwan and Hong Kong. In considering cinema as a sign system for the construction of sociocultural and aesthetic meanings, this course examines different national identities and film genres. Students will learn to understand non-Western cultural texts and to analyze cinematic representations. Meets Human Diversity corequirement.

FL 3312. Women in Modern China. Critical examination, from literary and gender perspectives, of the lives and roles of 20th-century Chinese women, including works from major women writers. Meets Human Diversity corequirement and Perspectives requirement for literature.

FL 3323 (CFA 3320, HIST 2323). Russian Culture. Significant aspects of Russian thought and culture at its various stages of development are presented and illustrated by examples from literature, folklore, prose, drama, journalism, architecture, the fine arts and music. Meets Human Diversity corequirement.

FL 3325 (CF 3365). Perspectives on Modern China. Survey of China in the 20th century in terms of cultural trends, literature and cinema. The course stresses the interactions

between reality and representation, between author and reader/audience, and between text and interpretation. Close reading of texts or viewing of films, followed by critical analysis, is emphasized. Meets Human Diversity corequirement.

FL 3331. Survey of Russian Literature in Translation. Russian literature from the 18th century to the present. Works by Tolstoy, Dostoevsky, Chekhov, Solzhenitsyn and others. Meets Perspectives requirement for literature.

FL 3332. Special Topics: Russian Literature in Translation. Texts, periods and thematic and critical approaches will vary from term to term.

FL 3335 (CF 3335, HIST 3335). One King, One Law: France 1500-1789. This course examines the culture of France through its history and literature. It emphasizes historical developments, ideas and literary texts that define and illuminate French Classicism and absolutism. The course focuses on the early modern period, when France set the cultural tone and made significant contributions to the transformation of Western civilization. The course also provides a foundation for understanding subsequent European history and literary movements.

FL 3340. Semiotics and Interpretation. Semiotics is the study of how meaning is

produced and communicated. This course explores semiotic approaches to the interpretation of the most complex of all human communications: literary texts. Meets Perspectives requirement for literature.

FL 3349 (CF 3349, HIST 3392). The African Diaspora: Literature and History of Black Liberation. Black literature played an important role in bringing on the collapse of the European colonial order, and it remains a major force in the struggle against neocolonialism today. This course explores links between literature and politics, literature and history, and thought and action in 20th-century Africa and the Caribbean. Readings and lectures will be supplemented by class discussion, films and videotapes about the Caribbean and Africa. Meets Human Diversity corequirement.

FL 3350. Existentialism and Literature. Existentialist perspectives on society, individual responsibility, politics and war, as presented in key literary texts by Kierkegaard, Dostoevsky, Malraux, Sartre, Camus, Ellison and others.

FL 3359. Masculinities: Literary Images and Perspectives. The representation of male sex roles in Western literature, from Achilles to James Bond. Open to juniors and seniors; sophomores by permission of instructor. Meets Perspectives requirement for Literature.

FL 3360 (CFA 3360). The Ethics of Colonization in Latin America. Through a study of literary, philosophical, historical and religious texts, this course considers how the humanist ethics of the Renaissance were debated and carried out in the colonization of Latin America.

FL 3361. Special Topics: French Literature in Translation. Texts, periods, and thematic and critical approaches will vary from term to term. (SMU-in-Paris only)

FL 3363 (CF 3347, WS 3347). Figuring the Feminine. The feminist inquiry in France from the Middle Ages to the present. Texts by women that bear witness to women's struggles for civil, social and political adulthood. Meets Human Diversity corequirement.

FL 3365, 3366. Special Topics: French Literature in Translation. Texts, periods, and thematic and critical approaches will vary each term.

FL 3369 (CF 3369). Perspectives on Modern Germany. A multidisciplinary survey of the German heritage, with emphasis on Germany's quest for identity and unity. *Prerequisite:* Sophomore standing or permission of instructor.

FL 3390. Italian Cinema. A chronological survey of Italian cinema from its beginnings to the present. Themes and cinematic styles of several internationally noted directors such as Rossellini, DeSica, Fellini, Antonioni and Bertolucci, with attention to the Italian cinema as a reflection of sociopolitical trends.

FL 3391, 3392. Special Topics: Italian Literature in Translation. Texts, periods, and thematic and critical approaches will vary from term to term. Meets Perspectives requirement for literature.

FL 3393. Dante's Poetic Vision. Close reading of *The Inferno* and *The Purgatory*. Focuses on significant passages to reveal Dante's poetic genius along with his political and religious concerns in the context of medieval thought. Meets Perspectives requirement for literature.

FL 3395. (CF 3395) A Cultural Journey to China. Suzhou, in China's cultural heartland, is the site of this course on the development of Chinese culture: religion, literature, cinema, art, architecture and history. Trips complement readings centered on self, family and state. (SMU-in-Suzhou only)

GEOLOGICAL SCIENCES

www.smu.edu/geology

Professor Robert Gregory, **Department Chair**

Professors: David Blackwell, Eugene Herrin, Louis Jacobs, Lee McAlester, Brian Stump, John Walther, Crayton Yapp; **Associate Professor:** Bonnie Jacobs; **Assistant Professor:** Neil Tabor; **Research Associate Professors:** Steven Bergman, Anthony Fiorillo, John Wagner, Alisa Winkler, Dale Winkler; **Research Assistant Professors:** Jason McKenna, Mihan House McKenna, H. Troy Stuckey, Xinlin Du.

The Geological Sciences provide ways of understanding and appreciating dynamic earth processes, the physical environment, and the place of humanity in the long and complex history of the planet and solar system. They also provide the background for rewarding careers in industry, government and academia. The faculty offers exceptional learning and research opportunities in geology, geochemistry, geophysics, environmental geology, planetary geology and paleontology.

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

Academic programs are tailor-made to the educational and career objectives of each student. Because of the heavily funded active research programs within the department and their close ties with the Dallas geological community, students often receive excellent pre- and post-graduation employment opportunities. The department also has a substantial amount of financial aid available for undergraduate majors, including Department scholarships, appointments as teaching assistants, and support for off-campus field programs.

The department offers four different majors in the Geological Sciences: Geology B.A. and B.S., Geophysics B.S., and Environmental Geology B.S. A Minor in Environmental Earth Science that can be combined with virtually any other degree program on campus is available. The department also advises students in the Geoscience track of the Environmental Science Program (see the degree program listing in the Dedman College section for details).

Major in Geology

The B.A. or B.S. degrees in Geology typically follow one of three primary tracks: hard-rock geology and geochemistry, soft-rock geology and resource exploration, or paleontology and paleoenvironments. Each of these areas integrates classroom learning with field and laboratory experience. Consult a faculty adviser for recommendations.

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

1. One course chosen from GEOL 1301, 1305, 1307, 1308, 1313 or 1315 – 3 hours
2. GEOL 3340 (Face of the Earth); 3451, 3452 (Earth Materials I and II) – 11 hours
3. Four geology electives at the 3000 level or above – 12 hours minimum
4. Geology Field Studies (one course chosen from GEOL 3240, 3241, 3242, 3243 or 3343) – 2 hours

Required support courses – 9 hours minimum:

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

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

Requirements for the B.S. Degree. A minimum of 36 or 38 hours in geology, selected from the following:

1. One course chosen from GEOL 1301, 1305, 1307, 1308, 1313 or 1315 – 3 hours
2. GEOL 3340 (Face of the Earth); 3451, 3452 (Earth Materials I and II); 3454 (Structural Geology) – 15 hours
3. Four geology electives at the 3000 level or above – 12 hours minimum
4. Geology Field Studies (one course chosen from GEOL 3240, 3241, 3242, 3243 or 3343) – 2 hours
5. GEOL 4296 and 4298 (Integrative Research), or 4657 (Field Geology) – 4 or 6 hours

Required support courses – 17 hours minimum:

1. CHEM 1303, 1113, 1304 and 1114 – 8 hours
2. PHYS 1303 – 3 hours
3. MATH 1337, 1338 (Calculus with Analytic Geometry I and II) – 6 hours

NOTES:

- b Participation in a recognized geology summer field camp is strongly recommended for *all* majors (B.A. and B.S.). Most geology graduate programs in the United States require that a field course be completed.
- b Experience with a modern scientific computing language is essential. This experience can be gained in a course such as GEOL 3359 (Computer Methods in the Geological Sciences).
- b The requirements for the major are considered minimal. Students planning careers in the earth sciences should take additional course work according to the geoscience emphasis that best fits their goals. Consult a faculty adviser for suggestions.

Minor in Geology

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

1. One course chosen from GEOL 1301 (Earth Systems), 1305 (Oceanography), 1307 (Solar System), 1308 (Evolution and Life History), 1313 (Earthquakes and Volcanoes), or 1315 (Introduction to Environmental Sciences) – 3 hours
2. Four geology electives at the 3000 level or above – 12 hours minimum
3. Geology Field Studies (one course chosen from GEOL 3240, 3241, 3242, 3243 or 3343) or a geology elective at the 3300 level or higher, if not used to meet the requirement listed above – 2 to 3 hours

Major in Geophysics

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

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

1. One course chosen from GEOL 1301, 1305, 1307, 1308, 1313 or 1315 – 3 hours
2. GEOL 3340 (Face of the Earth), 3451, 3452 (Earth Materials I and II) – 11 hours
3. GEOL 3454 (Structural Geology), 5320 (Dynamic Earth I) and 5392 (Introduction to Seismology) – 10 hours
4. Three Geological Science electives at the 3000 level or above, one of which must be in Geophysics – 9 hours minimum

Required support courses – 30 hours minimum:

1. CHEM 1303 and 1113 – 4 hours
2. PHYS 1303, 1105; 1304, 1106 – 8 hours
3. MATH 1337, 1338, 2339 (Calculus with Analytic Geometry I, II, III); 2343 (Elementary Differential Equations); 3337 (Advanced Mathematics for Science and Engineering I); and 3353 (Introduction to Linear Algebra) – 18 hours

NOTES:

- b Participation in a recognized geology or geophysics summer field camp is strongly recommended for all geophysics majors.
- b Experience with a modern scientific computing language is essential. This experience can be gained in a course such as GEOL 3359 (Computer Methods in Geological Sciences).
- b The requirements for the Geophysics major are considered minimal. Consult a faculty adviser for recommendations on additional course work that best fits your goals.

Major in Environmental Geology

Environmental problems today are being addressed by a growing number of disciplines, including the sciences, engineering, the legal profession, economics, journalism and ethics. Yet, most of these problems are rooted in geological processes. The B.S. degree in Environmental Geology is intended to provide students with a quantitative understanding of the chemical and physical processes of environmental change. Because of its multidisciplinary scope, students are strongly encouraged to take appropriate courses in other departments.

Requirements for the B.S. Degree: A minimum of 35 hours in Geology, selected from the following:

1. One course chosen from GEOL 1301 (recommended), 1305, 1307, 1308, 1313 or 1315 – 3 hours
 2. GEOL 3340 (Face of the Earth); 3451, 3452 (Earth Materials I and II) – 11 hours
 2. GEOL 3366 (Environmental Geology and Geochemical Cycles), 5384 (Hydrogeology) and 5386 (Geochemistry) - 9 hours
 4. Two GEOL electives selected from 3240-3243, 3343 (Geology Field Studies), 3353 (Modern and Ancient Climates), 3454 (Structural Geology), 3472 (Principles of Sedimentation), or 4390 (Introduction to Geophysical Prospecting) – 6 to 8 hours minimum
 5. GEOL 4296 and 4298 (Integrative Research), or 4657 (Field Geology) – 6 hours
 6. Geol 3366 (Environmental Geology and Geochemical Cycles), 5384 (Hydrogeology) and 5386 (Geochemistry) - 9 hours
- Required support courses – 26 hours minimum:

1. CHEM 1303, 1113, 1304 and 1114 – 8 hours
2. PHYS 1303 – 3 hours
3. MATH 1337, 1338, 2339 (Calculus with Analytic Geometry I, II, III); and 2343 (Elementary Differential Equations) – 12 hours
4. ENCE 5311 (Environmental and Hazardous Waste Law) – 3 hours

NOTES:

- b Experience with a modern scientific computing language is essential. This experience can be gained in a course such as GEOL 3359 (Computer Methods in Geological Sciences).
- b The requirements for the Environmental Geology major are considered minimal. Consult a faculty adviser for recommendations on additional course work that best fits your goals.

Minor in Environmental Earth Sciences

The Minor in Environmental Earth Sciences is designed with a two-course geology core as background to an interdisciplinary course of study. The minor is freestanding and is not intended to feed into a major. Instead, it should pro-

vide an excellent and substantive background for students heading into the environmental field from other disciplines. The minor is not suitable for a student majoring in the Geological Sciences. The Department of Geological Sciences is responsible for administration of this minor.

Requirements for the Minor: A minimum of 18 hours, to be selected from the following, with at least nine of the 18 term hours taken at the 3000 level or above:

1. One course chosen from GEOL 1301 (Earth Systems), 1305 (Oceanography), 1307 (Solar System), or 1308 (Evolution and Life History) – 3 hours
2. One course chosen from GEOL 1315 (Introduction to Environmental Sciences), 3340¹ (Face of the Earth), 3353² (Modern and Ancient Climates), 3363 (Environmental Geology Seminar), or 3366² (Environmental Geology and Geochemical Cycles) – 3 hours
3. Four courses to be selected from the following list – 12 hours:
 - GEOL 3240-43, 3307, 3330, 3340, 3343, 3353, 3363, 3366, 5384, 5386** (if not used to meet the requirement listed above)
 - BIOL 1305** Our Natural Environment*
 - BIOL 3307**³ Ecology
 - BIOL 3342**³ The Plant Kingdom
 - BIOL 3343**³ Field Botany*
 - ENCE 5311** Environmental and Hazardous Waste Law

The Courses (GEOL)

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

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

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

Course Prerequisites:

¹One 1300-level GEOL course or permission of instructor.

²High school chemistry and algebra.

³BIOL 1401 and 1402 or permission of instructor.

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

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

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

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

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

3107. Departmental Seminar. Students attend and talk with departmental speakers made up of visiting scientists, visiting engineers, faculty and graduate students. May be repeated up to three times and is only offered as pass/fail. *Prerequisites:* One 1300-level course in Geological Sciences.

3240, 3241, 3242, 3243, 3343. Geology Field Studies. Project- and mapping-oriented, two-week field trips to classical geological localities inside or outside of the United States. Trips will normally be conducted either during the May Interterm or between terms. Examples of planned trips include the Caribbean, Hawaii, Grand Canyon, Lake Superior/Canada and New Mexico/Colorado. *Prerequisites:* One 1300-level course in Geological Sciences and permission of instructor.

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

3330. Resources and the Environment. A study of earth materials and processes and how they bear on planning, resource, conservation, and pollution problems arising from humankind's intense use of the planet earth. Class projects and/or field trips are an integral part of this timely course. *Prerequisite:* 1300-level course in Geological Sciences or permission of instructor.

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

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

3359. Computer Methods in Geological Sciences. Solutions to geological, geochemical, and geophysical problems unique to earth sciences using computer methods. Focuses on computer application to geologic mapping, modeling and data analysis. *Pre-*

requisite: Permission of instructor.

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

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

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

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

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

3451, 3452. Earth Materials I and II. 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, introduction to relationships among rock textures, origins and rock-forming processes. *Prerequisites*: One 1300-level course in Geological Sciences and credit or registration in CHEM 1301 or 1303 (for 3451); credit or registration in GEOL 3340 (for 3452).

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

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

4199, 4299, 4399. Integrative Research. Faculty-supervised independent geoscience research project designed to acquaint the student with current scientific techniques in data gathering (in field and/or laboratory and/or library), data processing, and presentation of results; GEOL 4296 and 4298 are a one-year sequence. *Prerequisite*: Permission of faculty adviser.

4296, 4298. Senior Research Project. Significant scientific project is undertaken during the student’s senior year, for one, two or three hour credits

4321. Internship in Geoscience. Direct experience using applied geoscience techniques in a work environment, including resource recovery companies, environmental

companies, law firms, nonprofit organizations, educational institutions, and municipal, state, or federal agencies. *Prerequisite:* Junior or senior standing in a geoscience major, overall G.P.A. of at least 3.0 and completion of GEOL 3452; sponsorship of a professor and approved organization, agency or company.

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

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

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

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

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

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

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

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

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

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

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

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

5371. Paleontology of Quaternary Vertebrates. The history of vertebrate life in North America during the last 3 million years, with special emphasis on mammals. Origins,

distribution, distinctions, environmental interpretations, and faunal analysis. Prerequisite: GEOL 3369 or consent of instructor.

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

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

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

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

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

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

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

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

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

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

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

5399. Special Topics in Geological Sciences. Topics of special interest not covered by the curriculum, taught by visiting scientists and those with temporary appointments

at SMU. Can be co-taught together with faculty of the department. *Prerequisites:* GEOL 3340 or permission of instructor.

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

HISTORY

www.smu.edu/history

Professor James Hopkins, **Department Chair**

Professors: Jeremy Adams, Peter Bakewell, John Chávez, Dennis Cordell, Edward Countryman, Donald Niewyk, Daniel Orlovsky, Sherry Smith, David Weber, Kathleen Wellman, R. Hal Williams; **Associate Professors:** Melissa Dowling, Kenneth Hamilton, Thomas Knock, Glenn Linden, Alexis McCrossen, John Mears; **Assistant Professors:** Sabri Ates, Crista DeLuzio, Benjamin Johnson, Ling Shiao; **Adjunct Lecturers:** David Doyle, Rick Halperin.

Departmental courses are of three types: introductory, survey, and more advanced courses that explore large areas of human history; intermediate thematic courses that mix lectures and small group discussions to explore more closely defined topics; and seminars that probe deeply into given areas. Each student should devise a program of study that meets individual interests and needs and also achieves a balance between diversification and specialization. Except where specified, there are no prerequisites, and interested students are invited into all courses.

Requirements for the B.A. Degree. Thirty-three term hours in history are required for the major, including a Junior Seminar in Research and Writing (HIST 4300) and one three-hour course at the 5000 level. In addition, majors must take at least six term hours in each of the following three areas: (1) United States, (2) Europe, and (3) Africa, Asia or Latin America. Any combination of courses in these areas is acceptable (History 4300 will not fulfill these area requirements). At least 18 term hours in courses at the 3000 and higher levels are required. History majors must earn 2.00 minimum G.P.A.s in their history coursework. Six term hours of advanced placement credit can be applied toward the History major.

Twelve term hours of foreign language are recommended.

The Departmental Distinction Program. A history major with sufficiently high standing may graduate with honors in history by applying for the degree "with departmental distinction." During their senior year, candidates for distinction will pursue an individual research project under the direction of a particular professor (while enrolled in HIST 4375). This major research project will develop from the 5000-level seminar or HIST 4300, the junior seminar. The project will be presented as a thesis before the end of the term. The successful honors graduate must also pass an oral examination on the thesis.

Requirements for the Minor. Students with a general interest in history may pursue a minor by taking 15 term hours of departmental course work. Nine term hours must be taken at the 3000-5000 level. Students intending to take a minor in the department should design a program of study in consultation with

the Director of Undergraduate Studies.

Foundation and Special Courses (HIST)

1301,1302. World Cultures and Civilization. A survey of world cultures from the earliest times to the present. The development of individual civilization will be studied within a comparative framework emphasizing the themes common to all human history.

1311. Western Civilization to 1527 A.D. A survey of the cultural phenomenon often called *Western Civilization*, from its prehistoric roots in western Asia as well as Europe, through ancient Mesopotamian and Egyptian civilization to the Greeks, the Romans, and the medieval experience up to the “Renaissance.” Lecture course, with much reference to literature and visual arts.

1312. Western Civilization Since 1527. An introductory survey of Western civilization from about the time of the Reformation to the present.

2300. The Vision of History: The Western Tradition.

2301. The Vision of History: The American Experience.

4300. Junior Seminar in Research and Writing. Consists of a common body of readings on research methods and writing and a relatively small core of required readings that will be different in each section and organized around a topic chosen by the instructor. Closely supervised writing assignments, based upon the required readings, will grow into a major research project by the end of the term.

4375, 4376. Departmental Distinction. Honors program open to qualified seniors by invitation of the department.

4397. Internship in History. An opportunity for students to apply historical skills in a public setting working with a supervisor of the student’s work and a professor assessing the academic component of the project. *Prerequisites:* Junior or senior standing and at least 2.5 overall G.P.A.

4398, 4399. Independent Study. History majors in their junior year may apply to the Director of Undergraduate Studies to pursue a personally designed course of study under the guidance of an appropriate professor during the junior or senior year.

United States History

Majors planning a concentration in the U.S. history field are advised to begin their program with one of the “problems” or *advanced* survey courses (at the 3000-4000 level), *not* HIST 2311, 2312.

The Courses (HIST)

1321. First-Year Seminar in American History. Offers the beginning student an opportunity to explore particular topics in American history intensively in a small class setting.

2311. Out of Many: U.S. History to 1877. Growth of American civilization. General survey, with particular attention to social and political aspects. Open to first-year students.

2312. Unfinished Nation: U.S. History Since 1877. Growth of American civilization. General survey, with particular attention to social and political aspects. Open to first-year students.

2339. A History of Technology in the United States. Examines how technological innovations have changed the lives of Americans between the Revolution and the present. Considers how Americans have embraced, resisted, understood and used new technologies.

2380 (CFA 3380). Ethnic Regions in the Western World. An interdisciplinary course that examines the ways regional ethnic minorities – such as the Basques, Québécois, and Chicanos – have functioned within larger societies in Western Europe and North America.

2398. American Politics and Culture, FDR to Bush. Examines life and culture in modern America.

3301 (CF 3317). Human Rights: America's Dilemma. Examines certain violations of human rights within their historical context and explores America's commission and prevention of human rights violations.

3304. Blacks and the Civil Rights Movement. African Americans and the Civil Rights Movement with a focus on post-World War II migration, changing conceptions of race, increasing black prosperity, integration and black nationalism, and the lives of significant black leaders of the Civil Rights Movement.

3305 (CF 3318). The Hispanos of New Mexico, 1848-Present. History of the Mexican-American subculture of New Mexico. Field trips to historical sites. SMU-in-Taos. Summer only.

3306 (CF 3309). Colony to Empire: U.S. Diplomacy 1789-1941. Examines major events in American foreign policy from the Early National period to Pearl Harbor, emphasizing 19th-century continental expansion, early 20th-century imperialism, and American involvement in the World Wars.

3307. The U.S. and the Cold War, 1945-1989. An examination of major events in American foreign policy since World War II, emphasizing policy toward Western Europe, the Soviet Union, Asia and Latin America.

3308 (CF 3320). History of Hispanics in the U.S. through Film. An examination of selected events and developments in the histories of Mexican Americans, Puerto Ricans, Cuban Americans and other Latinos as depicted in film and video, in movies and television.

3309 (CFB 3309) North American Environmental History. Surveys North American environmental history since pre-Columbian times. It expands the customary framework of historical inquiry by focusing on the interaction of human beings and the natural world.

3310. Problems in American History. Explores historical issues or trends in U.S. history using a case study or comparative format.

3311. Nineteenth-Century American West. History of the trans-Mississippi West in the 19th century, with an emphasis on major political, social, economic and environmental themes of the region's history.

3312. Women in American History. Analyzes women's changing social, economic and political roles in American society from colonial times to the present.

3313. African Americans in the United States, 1607-1877. Examines the people of the African continent, uprooted and enslaved, who continually grappled with the problem of how to preserve their dignity and identity in a hostile environment. The African Americans' adjustment to American society, their exterior struggle against political oppression, the interior nature of their group life, and the development of black institutions are critical to the course's concerns.

3314. African Americans in the United States, 1877 to the Present. Particular attention will be given to Populism, disfranchisement, segregation and lynching, black leadership ideologies, the influence of mass migrations, the impact of the Great Depres-

sion 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.

3316. History of Sex in America (CF 3311). This course will test the hypothesis that gender and sexuality are culturally constructed categories. Readings in anthropology, history, literary criticism and psychiatry will be utilized.

3318. The Human History of Natural Disaster in the United States. A survey of the role of “natural” disasters in US history, with an emphasis on the ways that they (including Hurricane Katrina) are human events, caused or complicated by social practices.

3319. Texas History. Texas as a crossroad of cultures from the 16th century to the present.

3320. The Spanish Frontier in North America, 1513-1821. (Also listed under Latin American History.) The exploration, colonization and development of the South and Southwest under Spanish rule, 1513 to 1821, including interaction with Indian peoples.

3321. The American Southwest. (Also listed under Latin American History.) History of the American Southwest, from the initial penetration in 1821 to the present.

3322 (CFB 3322). Native American History. Examines the roles Native Americans played in the history of North America (excluding Mexico) from 1500 to the present.

3324. The Mexican Americans, 1848 to the Present. Traces the historical evolution of the Mexican-American people in the Southwest from pre-Columbian to modern times with emphasis on the era since the Mexican War.

3327. Economic History of the United States. Development of the United States economy from colonial times until the present. Causes and consequences of American economic growth and instability.

3336 (CF 3366). Cultural History of the United States. Analysis of the literature, art, architecture, music, drama, popular amusements and social customs of America since 1877.

3338. U.S. Social History to 1877. Views history from the bottom up, offering a comparative examination of the American social experience (colonial era to 1877) in terms of race, class, ethnicity and gender.

3339. U.S. Social History since 1877. Views history from the bottom up, offering a comparative examination of the American social experience (1877 to the present) in terms of race, class, ethnicity and gender. *Recommended preparation:* HIST 3338.

3346. The 20th-Century American West. Examines the American West in the 20th century, emphasizing major social, cultural, economic and political themes of the region’s last one hundred years. Explores the characteristics that distinguish the West from other American regions and investigates its continued significance to American history.

3347. Civil War and Reconstruction. Examines the institution of slavery, the events leading to the Civil War, the War itself, and the subsequent efforts at Reconstruction.

3348 (CFA 3348). American Families: Changing Experiences and Expectations. Explores changes in American family life from the colonial period to the present. Seeks to understand how family ideals, structures and roles have shaped and been shaped by social and historical change.

3362. Searching for the American Dream: U.S. Immigration/Migration. Focus on American identity through the history of immigration and migration. Topics include the slave trade; European, Asian and Latin-American immigration; the Overland Trail; illegal immigration; and “the melting pot.”

3364. Consumer Culture in the United States, 1700-1990. The business, cultural and political history of the rise of the consumer culture in the United States. Focus on the development of institutions, ideas and practices centered on consumption.

3369. Colonial America. A study of the transfer of Europeans and Africans to the British mainland provinces and the development of a multicultural and multiregional colonial society.

3370. The American Revolution. A survey of political, social and military history of the Revolutionary era. Major topics include the imperial crisis, mobilization and war, and state and federal constitutional development.

3372. The South in American History. Explores the origin, development, and present and future status of the South's position in America.

3379 (CFA 3325). A Cultural History of New Mexico. Explores the history of struggles between the state's dominant ethnic groups – Native American, Hispanos, and Anglos – over rituals, spaces and objects. (SMU-in-Taos)

3384. Social Action in Urban America. An examination of the historical development of social action in American cities and communities, from religious charity organizations of the 19th century to present-day community organizing projects. Taught in conjunction with the SMU Inter-Community Experience (ICE) Program and includes a three-hour-per-week community service requirement. *Prerequisite:* Permission of instructor.

3388. The African-American Urban Experience, 1865-1980. A history of blacks in American cities during the post-Civil War era. Investigates the forces that inspired blacks to relocate to urban areas and surveys the dynamic lifestyles created within evolving black urban communities, the long periods of major African-American rural-to-city migration, institution building, black politics, African-American economics, race relations, and social life.

3391 (CF 3330). From Pew to Bleacher: American Culture and Institutions. An introduction to the formation of 19th- and 20th-century American culture and civilization through the study of the Church, print culture, museums, galleries, libraries, theater, Hollywood, television, and professional sports.

3394. The "New Woman": The Emergence of Modern Womanhood in the U.S., 1890-1930. Explores the experiences of a variety of women from 1890-1930, including feminists, reformers, intellectuals, artists, working women, mothers, high school and college students and juvenile delinquents.

3399. U.S. Foreign Policy from the Spanish American War to Vietnam. A broad survey of American foreign relations in the 20th century. Traces the rise of the United States as a world power from Teddy Roosevelt's charge up Kettle Hill to the evacuation of Saigon in 1975.

3401 (CF 3401). The Good Society. Examines the values and ideals that have been fundamental to the historical concept of the "good society," with an emphasis on themes to aid in understanding issues of race, gender, ethics and power essential to any meaningful evaluation of the society in which one lives.

4353, 4354. History of Ideas in America. Studies the main themes of American public thought from the colonial period to the Civil War and from the Civil War to the present.

For Undergraduate and Graduate Students

5330, 5331. Seminar in Mexican-American History. An examination of the growing historiography on Mexican-Americans, focusing on the relationship between their

ethnic identity and the Southwest. (Also listed under Latin American History.)

5340, 5341. Seminar in American History. Intensive examination of major topics in American history.

5344. American Cultural History. Considers the histories of cultural institutions, objects, ideas and practices. Explores an array of representative cultural conflicts and obsessions that have marked American history.

5345. Industrialism and Reform in U.S., 1877-1919. An investigation of life in Gilded Age and Progressive-period America, including industrialization, urbanization and social conflict.

5350. Twentieth-Century America: A Seminar. Intensive examination of major developments in recent American history.

European History

1303. Millennialism Through the Ages. A historical look at the ancient and current notion that an apocalyptic End Time will produce a New Heaven and New Earth turning conventional order upside down, and how to behave if so.

1322. First-Year Seminar in European History. Offers the beginning student an opportunity to explore particular topics in European history intensively in a small class setting.

2321. Philosophical and Religious Thought in the Medieval West. A study of the key issues in Western thought, and of their temporary resolutions, in the "medieval" millennium – and of the shifting balance between Greek and Hebrew elements in that evolving tradition.

2323 (CFA 3320, FL 3323). Russian Culture. Significant aspects of Russian thought and culture at its various stages of development, illustrated by examples from poetry, prose, drama, journalism, architecture, the fine arts and music.

2346. Modern England, 1714 to the Present. A survey of modern English history from the accession of the Hanoverians to the present, with emphasis on social and political themes dealing with the transition from a landed to an industrial society. (SMU-in-Oxford)

2353 (CF 3392, ARHS 3318). Currents in Classical Civilization. The interdisciplinary study of the art, literatures and history of the ancient Greek and Roman worlds, focusing on the development of democracy, individualism, immortality, heroism, justice, sexuality, nature, etc.

2354. Ancient Foundations of Modern Civilization. An introduction to the study of the ancient world embracing both the ancient Near East and classical Greek and Roman civilization.

2355. History of the Ancient Near East and Egypt. An introduction to the ancient civilizations of Mesopotamia, Israel, Anatolia and Egypt. Examines changing ancient cultures as they contact (or conquer) each other as seen through their literature, histories and archaeological remains.

2365. Europe in the Modern World, Renaissance to 1760. An introductory survey of the growth of European civilization.

2366. Europe in the Modern World, 1760 to Present. A continuation of HIST 2365.

3302. Georgian and Victorian England, 1714-1867. The political, social and economic institutions of Britain and their development in the 18th and 19th centuries.

3303. Modern England, 1867 to the Present. Britain in the 20th century, with

- social and cultural emphasis; traces the changes in outlook and Empire to the present day.
- 3328. Economic History of Europe: 1000 A.D. to the Present.** Survey of the development of the European economy from 1000 A.D. to the present. Sources of growth and institutional changes will be explored.
- 3329 (CF 3322). Women in Early Modern Europe.** A study of the influence of women in European society and intellectual movements from the Renaissance through the Enlightenment.
- 3330. Women in Modern European History.** An exploration of the role of women in European society, from the cultures of Crete and Sumer to the present.
- 3332. Ancient and Medieval France.** An exploration of selected themes that dominate the current history, archaeology and historiography of ancient and medieval France, from the paleolithic cave painters to Joan of Arc.
- 3333. Early Modern France to 1789.** An examination of the social, political and cultural transformation of 16th-, 17th- and 18th-century France through the rise of the Bourbon monarchy, its consolidation under Louis XIV, and its evolution under his successors.
- 3334. France Since 1789.** A history of France from 1789 to the present with special emphasis on social and cultural history including the French Revolution and its legacy, the development of 19th-century French society, and France during the two World Wars.
- 3335 (CF 3335, FL 3335). One King, One Law: France 1500-1789.** The culture of France through its history and literature, emphasizing the historical developments, ideas, and literary texts that define the period and illuminate both French Classicism and absolutism.
- 3337 (CFB 3337). Ethical Dilemmas in a Global Age.** A cross-cultural exploration of major ethical issues emanating out of the radically changing context of human existence in recent decades.
- 3340. The Revolutionary Experience in Russia, 1900-1930.** The effects of the breakdown of the old regime and the establishment of Soviet power on Russian society and culture. Examines the evolution of political and social institutions, ideologies, literature and the arts against the backdrop of the era's turbulent political history.
- 3341. Soviet/Post-Soviet Society and Politics 1917 to Present.** Soviet/Russian/Eurasian experience from historical, ethnographic, economic, social and cultural perspectives, beginning with the present and going back to the roots of the Soviet state and society in the Revolutionary experience, 1917 to 1921.
- 3342. Atomic Energy and the Modern World.** An examination of the development of atomic energy and how it has affected the way we have lived in the 20th century.
- 3344 (CF 3394). The Oxford Landscape: From the Stone Age to the Tudors.** An exploration of several approaches to the development of the distinctive human "landscape" of the Upper Thames Valley and the city that gradually became its metropolis, from the paleolithic era to the end of the Middle Ages. (SMU-in-Oxford)
- 3345. England in Medieval and Early Modern Times.** Treats selected themes in the history of England to 1688, with special attention to formative periods and developments in the evolution of the English state. (SMU-in-Oxford)
- 3350. Life in the Medieval World, A.D. 306 to 1095.** A survey of the political, religious and cultural history of Western Europe from Constantine the Great to the First Crusade.

3351. Life in the Medieval World, 1095 to 1350. A survey of the political, social and intellectual structures that characterized the civilization of Western Europe between the First Crusade and the Black Death.

3352. The Age of the Crusades. Exploration of patterns of thought and behavior underlying and motivating the military, ideological and general cultural confrontation between Christendom and Islam from the late 11th to the 14th centuries.

3353. The History of Ancient Greece. A study of the ways in which the various societies of ancient Greece approached the problem of defining, establishing and maintaining an equitable social order.

3354. Warfare and Diplomacy in Antiquity. A study of the methods both of waging and of averting war in antiquity.

3355 (CF 3325). Class and Gender in Ancient Society. An examination of class and gender in the ancient world with special emphases on changing definitions of masculinity and femininity in Greek and Roman culture and the position, rights and interaction of different groups (e.g., free and slave, citizen and foreigner, soldier and civilian).

3356. The Individual and Society in Antiquity. A study of different concepts of the nature of the individual and his relation to society in Homeric and classical Greece and republican and imperial Rome.

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

3358 (CF 3313). The Renaissance. A history of culture in the Renaissance from the perspective of advances in scholarship and science and, above all, in appreciation of social and political contexts.

3359. Europe in the Age of the Reformation, 1520-1598. The political, economic, religious and cultural history of Europe, including the impact of the Protestant and Catholic reform movements.

3360. English Society in the Age of Elizabeth the Great. Focuses selectively upon key aspects of the social, cultural, religious and intellectual life of Elizabethan England, set against the background of political, economic and diplomatic developments in Europe in the 16th century.

3361. Roman History and the Roman Mind. The development of Roman civilization from its earliest beginnings to the dawn of the Middle Ages.

3363 (CF 3306). The Holocaust. Examines the destruction of the European Jews as they emerged from pre-World War I anti-Semitism and Nazi racism. Considers Jewish responses to genocide, the behavior of bystanders, and possibilities of rescue.

3365, 3366. Problems in European History. Historical events or trends of particular significance in the development of modern Europe will be examined with consideration of the ways in which historians have assessed and reassessed their viewpoints. Students will be invited to join in the controversy with a modest research project of their own. Topics will be selected in accordance with the interests of students and instructors and hence will vary from term to term.

3367. Revolutions in European History. Traces the impact of revolutionary explosions on European civilization from the peasant revolts of the late Middle Ages through the rebellions of the 1560s and 1640s and the great upheavals of the Age of Democratic Revolution to the events of 1917 in Russia. *Recommended preparation:* HIST 2365, 2366.

3368 (CF 3312). Warfare in the Modern World. The evolution of weapons, tactics,

strategy and military organization in the western world from the Renaissance to the present, with special attention to the fundamental nature and causes of armed conflict as well as the interrelationships between warfare and society as a whole.

3373 (CF 3327). Science, Religion and Magic in Early Modern England. A study of the interaction of three ways of thinking about nature and the place of human beings within nature – science, magic and religion. Focuses on early modern England and religious divisions of the English Reformation and civil wars that brought political dissension and many competing views of nature and society.

3374 (CF 3328). Diplomacy in Europe: Napoleon to the European Union. Treats the evolution of the European state system from the post-Napoleonic settlement through the end of the Cold War and creation of the European Union.

3375. Social History of Early Modern Europe. Studies European social and cultural development from the Renaissance to the French Revolution.

3376 (CF 3314). Social and Intellectual History of Europe. Studies European social, cultural and intellectual development from 1848 to the present.

3383. Habsburg Monarchy: Making of East Central Europe. The Habsburg monarchy from its medieval origins through its disintegration at the end of World War I, with emphasis on its enduring legacy to contemporary Europe.

3385. The Balkan Peninsula in its European Context. The impact of events in the Balkan peninsula on the development of European civilization from the conquests of the Ottoman Turks prior to 1566 through the contemporary era.

3397 (CF 3336). Modernity and Crises of Identity. Draws on the works of major intellectuals and artists. Explores crises of identity in Western culture during the decades prior to World War I.

4363. Inside Nazi Germany. The reality beneath the spectacle of the Nuremberg rallies and the efficiency of the totalitarian state.

4369. History of Modern Germany. Surveys developments in German society from unification under Bismarck to division in the wake of World War II, with particular attention given to Hitler's rise to power.

4380. History of Spain to 1492. (Also listed under Latin American History.) The main social, political and cultural topics of the history of the Iberian Peninsula before Ferdinand and Isabella, focusing on the Roman and Medieval periods.

4381. History of Spain, 1469 to the Present. (Also listed under Latin American History.) The main social, political and cultural topics of the history of the Iberian Peninsula from Columbus to the present.

4384. Early and Medieval England, from the Beginning to 1485. The early historical heritage of the English peoples, from prehistoric times through the end of the Middle Ages.

4385. Tudor and Stuart England, 1485 to 1714. The emergence of the modern British state and societies in the 16th and 17th centuries.

For Undergraduate and Graduate Students

5364. The City of God: Utopias in Christian Tradition. An examination of St. Augustine's masterpiece, along with several of its models and analogues from the Greco-Roman and Hebrew traditions.

5367. Russia from the Kievan Era to 1881. Surveys the development of state and society from the beginnings of history in East Slavic territory through the era of the Great

Reforms.

5370. Seminar in French History. An examination of key historians and of the several modes of history-writing that shape our vision of pre-modern France.

5371. The French Revolution and Napoleon, 1789-1815. The nature and causes of revolution, the French Revolution, and the career of Napoleon Bonaparte.

5372. Europe from Napoleon to Bismarck, 1815-1870. Examines the aftermath of Napoleon's empire, with special consideration of the revolutions of 1848.

5373. Europe from Bismarck to World War I, 1870-1918. Studies some of the modern world's most potent ideas: imperialism, social Darwinism, Marxism, racism and positivism in the context of Europe at the peak of its influence.

5374. Recent European History, 1918 to the Present. Considers two attempts to revive Europe from the effects of disastrous world wars, as well as the sources of new vigor it has found in the last 30 years.

5375. Europe in the Age of Louis XIV. The Scientific Revolution, the culture of the Baroque, and development of the European state system under the impact of the Thirty Years' War and the wars of Louis XIV.

5376. Europe in the Age of Enlightenment, 1715-1789. A study of society and culture in 18th-century Europe, the Enlightenment philosophies, Rococo art, the classical age of music, Enlightened Despotism, and the coming of the French Revolution.

5378 Medieval Renaissances. A reading-and-discussion seminar in two bursts of medieval cultural activity, the Carolingian and 12th-Century Renaissances. Focuses on two case studies (Alcuin and John of Salisbury).

5390. Seminar in Russian History. This advanced seminar covers in depth selected topics in late Imperial and Soviet history. *Prerequisite:* HIST 3340 or 3341, or permission of instructor.

5391. Athenian Democracy. This seminar examines the development of democratic government in Athens and studies the functioning of that government in peace and in war.

5392. Seminar in European History. Intensive examination of major topics in European history. *Prerequisite:* Junior standing or permission of instructor.

Latin American History

Students planning a concentration in Latin American History are urged to take HIST 2384 and 2385, followed by HIST 4380 and 4381.

2384 (CFA 3318). Latin America: The Colonial Period. An introductory survey covering the development of Latin American society from pre-discovery to the early 19th century.

2385 (CFA 3319). Latin America in the Modern Era. An introductory survey beginning with the 19th-century wars of independence from Spain and Portugal and emphasizing the 20th century as the new nations struggle for political stability and economic independence.

3317. Women in Latin-American Societies. The female experience in the formation of Latin American colonial societies. The theoretical explanation of womanhood within the ideology of the Spanish Counter-Reformation and its application to the daily life of women will be studied.

3320. The Spanish Frontier in North America, 1513-1821. (Also listed under United States History.) The exploration, colonization and development of the Southwest under Spanish rule, 1513 to 1821, including interaction with Indian peoples. (For History

majors, fulfills United States or Latin American requirement.)

3321. The American Southwest. (Also listed under United States History.) History of the American Southwest, from the initial penetration in 1821 to the present.

3380. Problems in Ibero-American History. Allows students to study special topics on a comparative or thematic basis. Avoids the strictly national, chronological approach to history in favor of topical organization.

3382. History of Mexico. Studies pre-Columbian, colonial and independent Mexico. Stresses culture and social developments.

3386. History of the Caribbean. A survey of Caribbean history aimed at identifying common and contrasting themes in this very diverse part of the world. Topics include the Caribbean before 1492, the slave trade, sugar and the plantation economy, abolition, the dependent Caribbean, and the false promise of independence.

4380. History of Spain to 1492. (Also listed under European History.) The main social, political and cultural topics of the history of the Iberian Peninsula before Ferdinand and Isabella, focusing on the Roman and Medieval periods. (For History majors, fulfills only European requirement.)

4381. History of Spain, 1469 to the Present. (Also listed under European History.) The main social, political and cultural topics of the history of the Iberian Peninsula from Columbus to the present. (For History majors, fulfills only European requirement.)

For Undergraduate and Graduate Students

5330, 5331. Seminar in Mexican-American History. (Also listed under United States History.)

5382. Seminar in Latin American History. Intensive examination of major topics in Latin America history.

African, Asian and World History

1323. First-Year Seminar in Non-Western History. Offers the beginning student the opportunity to explore particular topics in non-Western history intensively in a small class setting.

2391. Africa to the 19th Century. History of Africa south of the Sahara, focusing on culture and social organization, the Bantu migrations, African kingdoms, contacts with the world, Islam, and the slave trade.

2392. Modern Africa. An introduction to the history of Africa since 1800. Focuses on a number of themes to enable a better understanding of the recent past of this vast continent. Major topics include 19th-century social, political and economic revolutions in Southern and West Africa, the incorporation of the continent into the capitalist world economy, class formation under colonial rule, the rise of nationalism, and the politics of liberation.

2393. Japan Before 1850. Japan from its origins through the Tokugawa period. Themes include the military and the emperor in the polity, religions in society and culture, and the continuous, contested creation of identity.

2394. China Before 1850. Examines changes and continuities from Neolithic times to 1850 in Chinese state, society and religion, and the relations among the three spheres, through scholarly writings and primary sources.

2395. Modern East Asia. A survey of modern East Asia emphasizing an outline of the traditional societies, the Western impact, Japanese industrialization and imperialism, Pearl Harbor and the rise of Chinese communism.

3326 (CF 3310). The Venture of Islam. An introduction to Islamic civilization

through an examination of Islamic history and society, arts and letters, and science, as well as philosophy and the legal order. Considers the response of Islam to the challenge posed by the West.

3371 Conflicts in the Modern Middle East. Examines the Arab-Israeli conflict, other regional conflicts and the U.S.-U.S.S.R. Cold War in the Middle East.

3378. Problems in African History. Examines a particular topic in the history of Africa. Potential topics include the trans-Saharan caravan system, the arrival and spread of Islam, the rise of African-European cultures, the slave trade, the abolition of slavery, imperialism and colonial transformations, nationalism, liberation movements, independence and underdevelopment, and democratization.

3387 (CF 3315). Asia and the West. Goods, ideas, religions, artistic styles, technologies, soldiers and diseases have long traveled between East and West. Scholarship, primary sources, literature and film illuminate the material and ideological effects of the exchanges.

3389. Problems in Middle Eastern History. A contemporary topic is treated in historical perspective. Sample topics include the Arab-Israeli conflict, oil and the politics of energy, and Islamic fundamentalism.

3390. The Modern Middle East: From the Ottoman Empire to OPEC. History of the Middle East since the 19th century focusing on the decline of the Ottoman Empire, the Western challenge, the rise of national states, the Arab-Israeli dilemma, and the politics of energy.

3392 (CF 3349, FL 3349). The African Diaspora: Literature and History of Black Liberation. Examines the role of Black literature in bringing on the collapse of European colonial order and as a major force in the struggle against neocolonialism today. Explores links between literature and politics, literature and history, and thought and action in 20th-century Africa and the Caribbean.

3393. China in Revolution. Examines the “century of revolution” in China, from the mid-19th century to the present, beginning with the unique political and social structure of “Old China,” and analyzing the impact of Western Imperialism and the creative responses of intellectuals, warlords and revolutionaries.

3395. Problems in Asian History. Explores historical issues, trends or special topics in Asian history using a thematic or comparative format.

3396. Middle Eastern Economic History. Examines economic patterns in Middle Eastern history, politics and social life from the 18th century until the present.

3398. Women in Chinese History. Examines changes and continuities from Neolithic times to today in women’s roles in politics and the state, religions and ideologies, the family and its alternatives, and production and consumption.

4364. History of South Africa: Background to Conflict. 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.

INDIVIDUALIZED STUDIES IN THE LIBERAL ARTS

Professor Cal Jillson, Director

The Individualized Studies major in the Liberal Arts provides students an opportunity to design an interdisciplinary program of study that brings fields of inquiry together in unique combinations not currently offered as a program in the curriculum.

Interested and academically qualified students are invited to explore this possibility with the Director of the Program, Dr. Cal Jillson, Associate Dean of Dedman College, 214-768-2168. If the Plan of Study appears to have merit, Dr. Jillson will suggest faculty members in appropriate departments and divisions of the University who can provide further assistance in designing the program. Students must ask at least three faculty members to constitute a Faculty Supervisory Committee, with one serving as chair.

Program Description

Students with at least a 3.50 G.P.A. in the first 24 term hours taken in residence at SMU are eligible to pursue the program in Individualized Studies.

The program consists of individually designed majors in the liberal arts of at least 36 term hours, with a minimum of at least 24 term hours of advanced courses (3000 level or above). The program must satisfy the General Education Curriculum (GEC) requirements and all other University and Dedman College graduation requirements. Students are responsible for fulfilling all prerequisites for courses taken.

The degree will be identified as a Bachelor of Arts. The transcript will refer to the major as "Individualized Studies in the Liberal Arts." A note on the transcript will denote the specialization. Students intending to seek admission to graduate schools are encouraged to include at least 30 hours of a coherent set of courses in an identifiable disciplinary field.

The following should be submitted to the program's director, Dr. Cal Jillson:

1. Formal Plan of Study (including goal statement and major plan).
2. Transcript.

With the director's approval and written approval of the Faculty Supervisory Committee, materials will be submitted to the College Undergraduate Council for action.

Administrative Procedures

The Dedman College Undergraduate Council shall have the final authority to approve all individualized programs. The Chair of the Council (or a designee) will act as the Director of Individual Studies.

Prior to declaring the major, a number of steps must be completed:

1. The student and chair of the program must form a Supervisory Committee with a minimum of three members. The Supervisory Committee will provide advice and guidance to the student. At least two members, including the chair of the committee, shall be resident members of the Dedman College faculty.
2. The student will submit a Plan of Study to the director and to each Supervisory Committee member. If the committee and the director approve the Plan of Study, the Plan is then submitted for approval by the Undergraduate Council.

3. The Plan is transmitted to the office of the Associate Dean for Student Academic Affairs and to the Dedman College Dean's office.

The Plan of Study normally should be submitted to the Dedman College Undergraduate Council for approval before the completion of 60 total term hours of coursework.

The chair of the Supervisory Committee and the College Dean's Office will recommend candidates for graduation. The Dean of Student Records will be responsible for verifying and certifying graduation requirements.

INTERNATIONAL AND AREA STUDIES

International and Area Studies provides students with the opportunity to design interdisciplinary programs of study that will give them an understanding of the human experience in a global perspective, while at the same time allowing them to develop in-depth knowledge and expertise in specific geographical areas. These programs include (1) a major or minor in International Studies, (2) a minor in Asian Studies, (3) a minor in European Studies and (4) a major or minor in Latin American and Iberian Studies. Descriptions of each of these programs along with their degree requirements are listed below.

To succeed in an international career, students need expertise in the politics, economics, history, language and cultures of societies other than their own. The curricula for the International and Area Studies programs are designed to provide students with a foundation for this expertise, requiring course work in the social sciences, business, language and humanities. To maximize the educational experience in these degree programs, all majors are strongly encouraged to spend at least one term or summer studying abroad. The University offers numerous study-abroad opportunities around the world; most of these courses may be applied to the International and Area Studies majors and minors. For more information, see the "Study Abroad" section in this bulletin, as well as the requirements for each of the programs listed below.

International Studies

Professor Stephen Wegren, **Director**

The major in International Studies requires 33 hours of study in specific courses in addition to prerequisites for certain courses; this includes 15 hours of study from the basic curriculum. At least 18 hours from the Basic and Area Studies Curricula must be in courses at the 3000 level or above. A cocurricular requirement for the B.A. degree in International Studies is two years of college-level study of a foreign language or equivalent. The language requirement may be met through examination, the transfer of language study credit from another university, or by taking courses on campus.

The minor in International Studies requires 15 hours of study from the Basic Curriculum, nine hours of which must be in courses at the 3000 level or above. A cocurricular requirement for the minor is one year of college-level study of a foreign language or equivalent.

Basic Curriculum

The first 15 hours (constituting a minor in International Studies) must in-

clude one course from Introduction to World Cultures; one course from International Politics; one course from International Economics; and two courses from The Global Perspective. Of the 15 hours required in the Basic Curriculum, at least six hours must be in courses at the 3000 level and above. A total of five classes must be taken from the Basic Curriculum.

Introduction to World Cultures

ANTH 2301 Introductory Cultural Anthropology

HIST 1302 World Cultures and Civilization

International Politics

PLSC 1340 Introduction to Comparative Politics

PLSC 1380 Introduction to International Relations

International Economics

ECO 3321 International Economic Policy (*Prerequisites:* ECO 1311 and 1312)

ECO 4357 International Trade (*Prerequisite:* ECO 3301)

ECO 4358 International Macroeconomic Theory and Policy (*Prerequisite:* ECO 3302)

The Global Perspective

ADV 3354 International Advertising (SMU-in-London)

ANTH 3301 Health, Healing and Ethics

ANTH 3310/SOCI 3301 Gender and Sex Roles: A Global Perspective

ANTH 3327 Culture Change and Globalization: Social Science Perspectives

ANTH 3333 The Immigrant Experience

ANTH 3336 Gender and Globalization: Cultural and Ethical Issues

ANTH 3344 Cultural Aspects of Business

ANTH 3365 The Rise and Fall of Superpowers

ANTH 3366 Magic, Myth and Religion Across Cultures

ANTH 3368/SOCI 3368 Urban Life: A Cross-Cultural Perspective

ANTH 4303 Political Economy of Health

ANTH 4307 Seminar in International Health

ANTH 4384 Global Issues and Development: An Overview (Seniors only)

ARHS 1307 World Art Traditions: A Survey

BA 3300 Topics in International Management (Study abroad programs)

CCPA 3321 International Public Relations (SMU-in-London)

ECO 5360 Economic Development

(*Prerequisites:* ECO 3301 and 3302)

ECO 5361 Natural Resources and Energy Economics

ECO 5362 Economic Growth

ENGL 3354 Non-Western Culture and Literature (20th-century, Third World texts)

FINA 4329* International Finance (*Prerequisite:* FINA 3320)

HIST 2380 Ethnic Regions in the Western World

HIST 3306 Colony to Empire: U.S. Diplomacy 1789-1941

HIST 3307 The U.S. and the Cold War

HIST 3337 Ethical Dilemmas in a Global Age

HIST 3368 Warfare in the Modern World

HIST 3397 Modernity and Crises of Identity

HIST 3399 U.S. Foreign Policy from the Spanish-American War to Vietnam

MKTG 3300 Marketing Management Field Project (SMU-in-Copenhagen)

MKTG 3348* International Marketing

PLSC 3342 Making Democracy Work

PLSC 3365 Communism and Post-Communism

PLSC 3381 Current Issues in International Politics
PLSC 3382 International Organizations: Global and Regional
PLSC 3383 The American Foreign Policy Process
PLSC 3387 Political Geography
PLSC 3389 International Political Economy (also SMU-in-Oxford)
PLSC 3390 Negotiating International Trade
PLSC 4342 Why Nations Revolt
PLSC 4354 The Third World and North-South Relations
PLSC 4380 Special Studies in International Relations
PLSC 4380 From Marx to Market (SMU-in-Paris)
PLSC 4381 National Security Policy
PLSC 4382 The Politics of Military Force
PLSC 4391 NAFTA and Free Trade in the Americas
PLSC 4398 Nuclear Weapons and World Politics
RELI 3366/ANTH 3366 Magic, Myth and Religion Across Cultures
SOCI 3340 Global Society

Area Studies Curriculum

The Area Studies Curriculum requires International Studies majors to specialize in a particular geographical region, defined by a common historical and cultural experience. Students may choose to specialize in Asian, Latin American and Iberian, European, or African and Middle Eastern Studies. A total of 15 hours must be taken in one of the Area Studies programs listed below. Three courses (nine hours) must be taken from Group I (Social Sciences), and two courses (six hours) must be taken from Group II (Humanities and Arts) in the same geographical area.

*Only available to Business majors with a minor or second major in International Studies. 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.

The final three-hour requirement for the B.A. in International Studies is the Senior Seminar:

INTL 4388. Seminar: International Government and Politics. An overview of the central questions in the study of international studies. The topic of the seminar will vary, depending upon the instructor. This course is restricted to International Studies majors of Senior standing. Juniors wishing to take this course must obtain the permission of the program director. The seminar, which must be taken on campus by all International Studies majors, is designed as a capstone course where the students can integrate and apply what they have learned.

Special Undergraduate Offerings

Opportunities for independent study and research are available to majors in International Studies. Students must have the program director's approval prior to registering for these courses. Prerequisites are stated for each independent study course below. No more than two such courses may be counted toward overall major or minor requirements. The director will indicate where these courses fit in the different sections of the major or the minor.

INTL 4302. Directed Readings in International Studies. Students develop and execute independent reading or research projects under the guidance of an International

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

INTL 4307. Departmental Distinction Thesis. Candidates for departmental distinction write a thesis under the direction of an International Studies faculty member, culminating in an oral examination over the field of the thesis. *Prerequisite:* Admission to departmental honors candidacy.

ASIAN STUDIES

The minor in Asian Studies provides students with an opportunity to design an interdisciplinary program of study that will give them an in-depth knowledge of the history, politics, society and culture of traditional and contemporary Asia. The program embraces all of the subregions of Asia, including East Asia (China, Japan and Korea), South Asia (India, Pakistan and Bangladesh), and the many countries of Southeast Asia. With such a diverse region it is especially important to take account of specific national cultures and traditions. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Asia. Most of the courses taught in University study-abroad programs in Asia may be applied to the Asian Studies minor.

The minor in Asian Studies requires 15 hours of study in specific courses. The first six hours (two courses) must be chosen from the four categories of the International Studies Basic Curriculum (see above). Each of the two courses must be from a separate category: either World Cultures, International Politics, International Economics or Global Perspective. The next nine hours (three courses) must be chosen from the Asian Studies curriculum (below), with at least one course from each of the two groups: Group I (Social Sciences) or Group II (Humanities and Arts). At least nine hours must be at the 3000 level or above. If a student is an International Studies major, only one course from the Area Studies curriculum may be double counted. A cocurricular requirement for the minor in Asian Studies is one year of college-level study of an Asian language. This requirement may be met through examination, the transfer of language study credit from another university, or by taking courses on campus.

Group I: Social Sciences

ANTH 3316 Cultures of the Pacific Islands

ANTH 3317 Peoples of Southeast Asia

ANTH 3323 East Asian Cultural Traditions

ANTH 4390 Asian Society: Study Tour and Seminar (SMU-in-Australia)

BA 3300 Japanese Business (SMU-in-Japan)

ECO 4357 Japanese Economy (SMU-in-Japan)

FL 3320/HIST 3337 Post-War Japanese Culture and Society
FL 3350/SOCI 3341 Perspectives on the East Asian Woman
FL 3395 A Cultural Journey into China (SMU in Suzhou)
HIST 2393 Japan Before 1850
HIST 2394 China Before 1850 (also SMU-in-Japan)
HIST 2395 Modern East Asia
HIST 3387 Asia and the West
HIST 3393 China in Revolution
HIST 3395 Problems in Asian History
HIST 3395 Early Asia (SMU-in-Australia)
HIST 3395 Traditional South Asia (SMU-in-Australia)
HIST 3398 Women in Chinese History
HIST 4394 Modern History of China (SMU-in-Taipei)
PLSC 3346 Governments and Politics of Japan (also SMU-in-Japan)
PLSC 4340 Special Studies in Comparative Government and Politics
PLSC 4353 Governments and Politics of East Asia
RELI 3378 Religions of China
SOCI 3300 Japanese Society (SMU-in-Japan)

Group II: Humanities and Arts

ARHS 1305 Introduction to Far Eastern Art
ARHS 3394 Arts and Architecture of Japan (also SMU-in-Japan)
ARHS 3395 Arts and Architecture of India
ARHS 3396 Art and Architecture of China (also SMU-in-Taipei)
CHIN 4381 Readings in Chinese Literature and Culture
CHIN 4382 Chinese Culture and Society in Film
FL 3310 Transnational Chinese Cinema
FL 3312 Women in Modern China
FL 3322 Japanese Literature in Translation (SMU-in-Japan)
FL 3325 Perspectives on Modern China
FL 3395 A Cultural Journey into China (SMU-in-Suzhou)
RELI 1303 Introduction to Eastern Religions
RELI 3306 Introduction to the Hindu Tradition
RELI 3307 Introduction to Buddhism
RELI 3365 Understanding the Self: East and West
RELI 3367 The Religious Life of China and Japan (SMU-in-Japan)
RELI 3376 Constructions of Gender: Sexuality and the Family in South Asian Religions
RELI 3377 The Cultural History of Tibet
RELI 3378 Religions of China
RELI 3382 Mysticism, East and West
RELI 3385 Philosophies of India

EUROPEAN STUDIES

Professor Daniel Orlovsky, **Coordinator**

The minor in European Studies provides students with an opportunity to design an interdisciplinary program of study that will give them an in-depth knowledge of European history, culture, politics and society. The program embraces all of Europe, from the Atlantic (including Great Britain and Ireland) to the Urals (including Russia) from 1700 to the present. In the last half of the 20th century, but especially since the end of the Cold War, Europe has been integrating economically, culturally, and politically. At the same time, the

program is designed to take account of specific national cultures and traditions. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Europe. Most of the courses taught in University study-abroad programs in Europe may be applied to the European Studies minor.

The minor in European Studies requires 15 hours of study in specific courses. The first six hours (two courses) must be chosen from the four categories of the International Studies Basic Curriculum (see above). Each of the two courses must be from a separate category: either World Cultures, International Politics, International Economics or Global Perspectives. The next nine hours (three courses) must be chosen from the European Studies curriculum (below), with at least one course from each of the two groups: Group I (Social Sciences) or Group II (Humanities and Arts). At least nine hours must be at the 3000 level or above. *If a student is an International Studies major, only one course from the Area Studies curriculum may be double-counted.* A cocurricular requirement for the minor in European Studies is two years of college-level study of a European language, other than English. This requirement may be met through examination, the transfer of language study credit from another university, or by taking courses on campus.

Group I: Social Sciences

- ANTH 3355** Society and Culture in Contemporary Europe
- ANTH 3355/PLSC 4343** Nationalism in Europe (SMU-in-Copenhagen)
- BA 3300** European Business Environment: The EU (SMU-in-Copenhagen)
- BA 4315** EU Seminar (SMU-in-Copenhagen)
- HIST 2366** Europe in the Modern World, 1760 to Present
- HIST 3303** Modern England, 1867 to the Present
- HIST 3328** Economic History of Europe: 1000 A.D. to the Present
- HIST 3330** Women in Modern European History
- HIST 3334** France Since 1789
- HIST 3340** The Revolutionary Experience in Russia, 1900-1930
- HIST 3341** Soviet/Post-Soviet Society and Politics, 1917 to the Present
- HIST 3343** 20th-Century European History (SMU-in-Copenhagen)
- HIST 3346** Modern England, 1714 to the Present (SMU-in-Oxford)
- HIST 3363** The Holocaust
- HIST 3365/3366** Problems in European History
- HIST 3365** The Making of Modern Europe (SMU-in-Spain)
- HIST 3366** France, America, and the Atlantic World (SMU-in-Paris)
- HIST 3367** Revolutions in European History
- HIST 3374** Diplomacy in Europe: Napoleon to the European Union (also SMU-in-Paris)
- HIST 3376** Social and Intellectual History of Europe
- HIST 3381/PLSC 4340** Political History of Contemporary Spain (SMU-in-Spain)
- HIST 3383** Habsburg Monarchy: Making of East Central Europe
- HIST 3385** The Balkan Peninsula in Its European Context
- HIST 4314** The Jews in Europe (SMU-in-Copenhagen)
- HIST 4363** Inside Nazi Germany
- HIST 4369** History of Modern Germany

HIST 4381 History of Spain, 1469 to the Present
HIST 4388 Georgian and Victorian England, 1714-1867 (SMU-in-Oxford)
HIST 5367 Russia From the Kievan Era to 1881
HIST 5371 The French Revolution and Napoleon, 1789-1815
HIST 5373 Europe from Bismarck to WWI, 1870-1918
HIST 5374 Recent European History, 1918 to the Present
HIST 5376 Europe in the Age of Enlightenment, 1715-1789
HIST 5390 Seminar in Russian History
HIST 5392 Seminar in European History
OBBP 3300 Business Relations With Russia and Central Europe (SMU-in-Copenhagen)
PLSC 3340 Western European Politics
PLSC 3351 Russia: Politics and Society (SMU-in-Copenhagen)
PLSC 3358 Government and Politics of Russia
PLSC 3359 From Communism to Democracy
PLSC 4340 Anglo-American Democracy (SMU-in-Oxford)
PLSC 4340 Danish Politics and Society (SMU-in-Copenhagen)
PLSC 4340 Special Studies in Comparative Government and Politics
PLSC 4358 Soviet Politics: Revolution to Revolution
PLSC 4380 Historical and Contemporary Issues of the European Construction
 (also SMU-in-Paris)
PLSC 4384 America-Russian Relationship: Soviet and Russian Foreign Policy
PLSC 5341 European Politics: The European Union
PLSC 5383 European Conflict and Security Issues (SMU-in-Copenhagen)
SOCI 5363 Criminal Justice in Scandinavia (SMU-in-Copenhagen)

Group II: Humanities and Arts

ARHS 1331 Nineteenth Century European Art
ARHS 1332 Twentieth-Century Art: Sources and Styles of Modern Art
ARHS 2352 From Impressionism to Abstract: European Art, 1870-1920 (SMU-in-Copenhagen)
ARHS 3329 Paris Art and Architecture I (SMU-in-Paris)
ARHS 3332 Masters of European Art (SMU-in-Copenhagen)
ARHS 3333 Art and Architecture in Italy (SMU-in-Italy)
ARHS 3339 El Greco to Goya: Spanish Painting of the Golden Age
ARHS 3344 Paintings at the Prado (SMU-in-Spain)
ARHS 3346 Paris Art and Architecture II (SMU-in-Paris)
ARHS 3347 Eighteenth-Century European Art and Theatre: Staging Revolution
ARHS 3352 Impressionism, Symbolism and the Deviant Body: Making a Difference
 (also SMU-in-Paris)
ARHS 3353 Impressionism in Context (SMU-in-Paris)
ARHS 4344/HIST 3349 Images of Power: Kings, Nobles and Elites (SMU-in-Paris)
CTV 2352 History of European Film (SMU-in-Copenhagen)
CTV 3310 Themes in European Film (SMU-in-Copenhagen)
CTV 3310 Screen Artists (SMU-in-Italy)
CTV 4305 Motion Pictures of Paris (SMU-in-Paris)
ENGL 3341 British Literary History II
ENGL 3344 Victorian Gender
ENGL 3360 Writers in Paris: The Invention of Modernism (SMU-in-Paris)
FL 2343 After Communism
FL 3303/SPAN 3373 Spanish Civilization (also SMU-in-Spain)
FL 3307 The Belle Epoque and the Birth of Modernity (SMU-in-Paris)

FL 3323/HIST 2323 Russian Culture
FL 3331 Survey of Russian Literature in Translation
FL 3361 Special Topics: French Literature in Translation
FL 3369 Perspectives on Modern Germany
FL 3390 Italian Cinema
FL 3391/2 Italian Literature in Translation
FREN 4373 French Civilization (also SMU-in-Paris)
FREN 4374 French Civilization (also SMU-in-Paris)
PHIL 3333 European Thought: From Modernism to Postmodernism
 (S M U - i n - C o p e n h a g e n)
PHIL 3352 History of Western Philosophy (Modern)
PHIL 3370 Nineteenth-Century Philosophy
PHIL 3370 Kierkegaard: Philosophy and the Meaning of Life (SMU-in-Copenhagen)
PHIL 3382 Twentieth-Century European Philosophy

LATIN AMERICAN AND IBERIAN STUDIES

Professor Peter Bakewell, **Coordinator**

Latin American and Iberian Studies provides students with an opportunity to design an interdisciplinary program of study that will give them an in-depth knowledge of Ibero-American history, culture, politics and society. The program embraces all of the countries of Latin America and the Iberian Peninsula. It is designed to take account not only of specific national cultures and traditions, as they have developed in Latin America, but also the importance of Latin cultures and Hispanic traditions in the United States. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Latin America, Spain or Portugal. To this end, Latin American and Iberian Studies provides its majors with several scholarships to attend the SMU-in-Spain term program as well as the SMU-in-Xalapa summer program. Students wishing to attend study abroad programs offered by other universities may have courses credited toward their major upon previous consultation with the Director of Latin American and Iberian Studies.

The major in Latin American and Iberian Studies requires 27 credit hours plus a language requirement as follows:

- a. A prerequisite of two years of college level Spanish or Portuguese.
- b. Six hours (two courses) from the first three categories of the International Studies Basic Curriculum (see above). The two courses must be from a separate category: either World Cultures, International Politics or International Economics.
- c. A mandatory sequence of six hours (two courses), which constitutes the core curriculum for whole major.

First sequence: Colonial History (HIST 2384), or History of Latin America (HIST 3380 – SMU-in-Spain), or Spanish American Civilization (SPAN 3374);

Second sequence: Latin America in the Modern Era (HIST 2385), or Government and Politics of Latin America (PLSC 3348).

- d. 15 hours (five courses) in 3000-level or above courses concentrating in one of the following groups: Social Sciences and Humanities (Group I), Archae-

ology, Art History and Foreign Languages (Group II). Students who want to take a course from the group in which they do not concentrate may do so upon the permission of the Director of Latin American and Iberian Studies. Courses taken in the first and second sequence once taken do not double count for the group requirement. *If a student is also majoring in International Studies, only two courses from the Area Studies curriculum may be double-counted.*

The minor in Latin American and Iberian Studies requires 15 hours of study in specific courses. The first six hours (two courses) must be chosen from the four categories of the International Studies Basic Curriculum (see above). Each of the two courses must be from a separate category: either World Cultures, International Politics, International Economics, or Global Perspectives. The next nine hours (three courses) must be chosen from the Latin American and Iberian Studies curriculum (below), with at least one course from each of the two groups: Group I (Social Sciences) or Group II (Humanities and Arts). At least nine hours must be at the 3000 level or above. *If a student is an International Studies major, only one course from the Area Studies curriculum may be double-counted.* A cocurricular requirement for the minor in Latin American and Iberian Studies is two years of college-level study of Spanish or Portuguese.

Group I: Social Sciences

- ANTH 3311** Mexico: From Conquest to Cancun
- ANTH 3313** South American Indians of the Past and Present
- ANTH 3354** Latin America: Peoples, Places and Power
- ANTH 3376** Caribbean Transformations
- HIST 2384** Latin America: The Colonial Period
- HIST 2385** Latin America in the Modern Era
- HIST 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** History of Latin America (SMU-in-Spain)
- HIST 3381/PLSC 4340** Political History of Contemporary Spain (SMU-in-Spain)
- HIST 3382** History of Mexico
- PLSC 3348** Governments and Politics of Latin America
- PLSC 3349** Politics of Major Latin American Countries
- PLSC 4340** Special Studies in Comparative Government and Politics (SMU-in-Spain)
- PLSC 4356** Latin American Political Economy
- PLSC 4385** Inter-American Relations
- PLSC 4391** NAFTA and Free Trade in the Americas
- SOCI 3370** Minority-Dominant Relations
- SOCI 3372** Chicanos in the Southwest

Group II: Humanities and Arts

(Spanish-language and literature courses are restricted to the Latin American and Iberian

Studies major and minor. International Studies majors may not take these courses for International Studies credit.)

- ANTH 3312** Meso-American Archaeology
- ARHS 1308** Epic of Latin America
- ARHS 3324** Arts and Cultures of Medieval Spain
- ARHS 3338** Baroque Art in Italy, Spain and the New World
- ARHS 3339** El Greco to Goya: Painting of the Golden Age
- ARHS 3343** Goya and His Time
- ARHS 3344** Paintings at the Prado (SMU-in-Spain)
- ARHS 3360** Modern Painters in Spain (SMU-in-Spain)
- ARHS 3376** Latin American Art
- ARHS 3382** Arts of the Ancient Andean Tradition: Chavin to Inca
- ARHS 3383** The Ancient Maya; Art and History
- ARHS 3385** The Aztecs Before and After the Conquest: Mesoamerica 1400-1600
- ENGL 3363** Chicana/Chicano Literature

Please note that the following six courses are part of the Latin American and Iberian Studies major's Group I. However, they remain in Group II for the International Studies major's regional concentration on Latin America and for the Latin American and Iberian Studies minor.

- FL 3303/SPAN 3373** Spanish Civilization (SMU-in-Spain)
- FL 3305** Latin American Literature in Translation
- FL 3306** The Heart of Aztlán: Chicano Literature of the Southwest
- SPAN 3374** Spanish American Civilization (SMU-in-Xalapa)
- Spanish Language and Literature Courses:**
- SPAN 4361** Translation: Theory and Practice
- SPAN 4391** Commercial Spanish for International Trade
- SPAN 4395** Introduction to Hispanic Literature
- SPAN 5310** Spanish Literature Before 1700
- SPAN 5311** Spanish Literature Since 1700
- SPAN 5315** Spanish American Literature to 1888
- SPAN 5316** Spanish American Literature Since 1888
- SPAN 5317** Literature of Mexico
- SPAN 5320** The Renaissance and Golden Age: Drama
- SPAN 5321** The Renaissance and Golden Age: Prose Fiction
- SPAN 5323** Nineteenth-Century Prose Fiction of Spain
- SPAN 5324** Twentieth-Century Poetry and Drama
- SPAN 5334** The Novel of the Post-Civil War Period
- SPAN 5335** Genre Studies in Spain
- SPAN 5336** The Spanish American Novel (also SMU-in-Xalapa)
- SPAN 5338** The Spanish American Short Story (also SMU-in-Xalapa)
- SPAN 5339** Spanish American Poetry
- SPAN 5360** The Concept of Honor in Spanish Literature
- SPAN 5365** Contemporary Spanish Women Writers

Special Undergraduate Offerings

Opportunities for independent study and research are available to majors in Latin American and Iberian Studies. Students must have the program director's approval prior to registering for these courses. Prerequisites are stated for each independent study course below. No more than two such courses may be counted toward overall major or minor requirements. The director will indicate where these courses fit in the different sections of the major or the minor.

LAAM 4102, 4202 and 4302. Directed Readings in Latin American and Iberian Studies. Students develop and execute independent reading or research projects under the guidance of a Latin American and Iberian Studies faculty member, culminating in a written report. *Prerequisites:* Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

LAAM 4306. Internship in Latin American and Iberian Studies. Undergraduate students who arrange for part- or full-time jobs in Latin American and Iberian Studies related fields relate these experiences to their academic curriculum through research and writing, under the guidance of an International Studies faculty member. *Prerequisites:* Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced preparation.

AFRICAN AND MIDDLE EASTERN STUDIES

Professor Dennis Cordell, **Coordinator**

This course of study is offered as an area specialization for International Studies majors only.

Group I: Social Sciences

- ANTH 3314** Peoples of Africa
- HIST 2355** History of the Ancient Near East and Egypt
- HIST 2391** Africa to the 19th Century
- HIST 2392** Modern Africa
- HIST 3326** The Venture of Islam
- HIST 3378** Problems in African History
- HIST 3386** History of the Caribbean
- HIST 3389** Problems in Middle Eastern History
- HIST 3390** The Modern Middle East: From the Ottoman Empire to OPEC
- HIST 4364** History of South Africa: Background to Conflict
- PLSC 3345** Government and Politics of the Middle East
- PLSC 3347** Government and Politics of Africa

Group II: Humanities and Arts

- ARHS 3306** Mummies, Myths and Monuments of Ancient Egypt: Art and Expression of Eternal Egypt
- ARHS 3328** Byzantine Art
- ARHS 3390** Traditional Arts of Africa
- ARHS 3392** Islamic Art and Architecture: The Creation of a New Art
- FL 3349/HIST 3392** The African Diaspora: Literature and History of Black Liberation
- RELI 3329** Introduction to Islam
- RELI 3372** Biblical Interpretation and the State of Israel

MARKETS AND CULTURE

www.smu.edu/sociology/markets.htm

Professor Linda Brewster Stearns, **Director**

The B.A. in Markets and Culture provides students the opportunity to learn about the world's market places from an interdisciplinary study in the social sciences and the humanities. Students will explore the economic principles of markets, the values and history of commerce, and the motives and myths that move people. By choosing from courses in a wide range of disciplines, including sociology, economics, anthropology, political science, history, psychology, literature and foreign languages, students will gain an understanding

of the multiple institutions and cultures that shape the world's markets.

Requirements for the B.A. Degree. The Markets and Culture major requires 36 total hours, consisting of 24 hours of core classes and 12 hours of electives. The core classes provide the student with the appropriate tools to understand the social basis of economic behavior as well as basic business concepts and practices. A grade of C- or better must be earned in all courses fulfilling the major requirements, and Markets and Culture majors must attain a minimum G.P.A. of 2.00 among all courses attempted for the major.

A co-curricular requirement for a degree in Markets and Culture is one year of college-level study of a foreign language or equivalent. Majors are strongly encouraged to take advantage of opportunities for study abroad and internships to broaden their classroom experience.

Core Courses

SOCI 2377 Markets and Culture

SOCI 3377 Organizations and Their Environment. *Prerequisite:* SOCI 2377.

SOCI 4377 Contemporary Markets and Culture *Prerequisites:* SOCI 2377 and SOCI 3377

ECO 3355 Money and Banking *Prerequisites:* ECO 1311 and ECO 1312.

CSE 2337 Introduction to Data Management (ITOM 2308 Information Systems for Management may substitute.) *Prerequisite:* EMIS 1305, *Prerequisite or Corequisite:* SOCI 2377.

ACCT 2310 Accounting for Markets and Culture (ACCT 2311 Fundamentals of Accounting I may substitute.) *Prerequisite or Corequisite:* SOCI 2377.

ENGL 2302 Business Writing *Prerequisite:* SOCI 2377.

STAT 2301 Statistics for Modern Business Decisions (STAT 2331 Introduction to Statistical Methods or ITOM 2305 Managerial Statistics may substitute.)

Elective Courses

(12 advanced hours required. Courses must be selected from at least three departments with no more than 6 hours in any one area.)

ADV 3354 International Advertising (SMU-in-London)

ANTH 3305 The "Other" in America: Popular Perceptions and Government Policy Through Time

ANTH 3310 Gender and Sex Roles: A Global Perspective

ANTH 3311 Mexico: From Conquest to Cancun

ANTH 3314 Peoples of Africa

ANTH 3316 Cultures of the Pacific Islands

ANTH 3317 Peoples of Southeast Asia

ANTH 3327 Culture Change and Globalization: Social Science Perspectives

ANTH 3333 The Immigrant Experience

ANTH 3336 Gender and Globalization: Cultural and Ethical Issues

ANTH 3344 Cultural Aspects of Business

ANTH 3346 Culture and Diversity in American Life

ANTH 3350 Good Eats and Forbidden Flesh: Culture, Food and the Global Grocery Market *Prerequisites:* Advanced standing and ANTH 2301, or permission of instructor.

ANTH 3354 Latin America: People, Places and Power

ANTH 3355 Society and Culture in Contemporary Europe

ANTH 3358 Indians of the Southwest from the 16th Century to the Present

ANTH 3361 Language in Culture and Society

ANTH 3366 Magic, Myth and Religion Across Cultures

ANTH 3368 Urban Life: A Cross-Cultural Perspective

ANTH 3374 Cultures and Environments of the Southwest

ANTH 4303 Political Economy of Health *Prerequisites:* ANTH 2301, ANTH 3301 or permission of instructor.

ANTH 4304 Migration and Ethnicity *Prerequisites:* Eighteen hours of anthropology or permission of instructor.

ANTH 4305 Applied Anthropology *Prerequisites:* Advanced standing and ANTH 2301, or permission of instructor.

ANTH 4344 Global Population Processes: Anthropological Perspectives *Prerequisites:* Eighteen hours of anthropology or permission of instructor.

ANTH 4384 Global Issues and Development: An Overview *Prerequisites:* Advanced standing and ANTH 2301, or permission of instructor.

BA 3300 Business in Europe (SMU-in-Paris)

BA 3300 European Business Environment: The EU (SMU-in-Copenhagen)

BA 3300 Management and Ethics in a Cross-Cultural Context (SMU-in-Spain)

BA 3300 Special Topics: Japanese Business (SMU-in-Japan)

BA 3301 Economies in Transition: Doing Business with Russia and Eastern Europe (SMU-in-Copenhagen)

BA 4315 EU Seminar (SMU-in-Copenhagen)

CCPA 3321 International Public Relations (SMU-in-London)

CHIN 3311 Advanced Chinese *Prerequisites:* CHIN 1401, 1402, 2401 and 2402.

CHIN 3312 Advanced Chinese *Prerequisite:* CHIN 3311.

CHIN 4411 China in the 1990s (SMU-in-Beijing)

CHIN 4412 Chinese Literature and Culture (SMU-in-Beijing)

ECO 3301 Price Theory (Intermediate Microeconomics) *Prerequisites:* ECO 1311 and 1312

ECO 3302 National Income and Employment (Intermediate Macroeconomics) *Prerequisites:* ECO 1311 and 1312. *Corequisite:* ECO 3301.

ECO 3321 International Economic Policy *Prerequisites:* ECO 1311 and 1312.

ECO 4351 Labor Economics *Prerequisite:* ECO 3301.

ECO 4357 International Trade *Prerequisite:* ECO 3301.

ECO 4358 International Macroeconomic Theory and Policy *Prerequisites:* ECO 3301 and 3302.

ECO 4366 Economics of the Public Sector *Prerequisite:* ECO 3301.

ECO 4368 Foundations of Financial Economics *Prerequisites:* ECO 3301, 3355, ACCT 2311 and STAT 2301 or ITOM 2305 (cannot be taken if student has taken FINA 3320).

ECO 5360 Economic Development *Prerequisites:* ECO 3301 and 3302, or permission of instructor.

ENGL 3354 Non-Western Culture and Literature (20th-century, Third World texts)

ENGL 3363 Chicana/Chicano Literature

ENGL 3365 Jewish American Literature and Culture

FINA 4329 International Finance in a European Context (SMU-in-Copenhagen)

FL 3303 Spanish Civilization (SMU-in-Spain)

FL 3312 Women in Modern China

FL 3322 Japanese Literature in Translation (SMU-in-Japan)

FL 3325 Perspectives on Modern China

FL 3361 Special Topics: French Literature in Translation (SMU-in-Paris)

FL 3369 Perspectives on Modern Germany *Prerequisites:* Sophomore standing or permission of instructor.

FL 3390 Italian Cinema

FL 3391 Special Topics: Italian Literature in Translation

FL 3392 Special Topics: Italian Literature in Translation

FREN 3356 Advanced French II *Prerequisite:* FREN 3455.

FREN 3455 Advanced French I *Prerequisite:* FREN 2401.

FREN 4365 Introduction to French Cinema *Prerequisites:* FREN 3356 and 4370, or permission of instructor and chair.

FREN 4375 Introduction to French History and Culture *Prerequisites:* FREN 3455, 3356 and 4370.

FREN 4376 Introduction to Francophone Cultures *Prerequisites:* FREN 3455, 3356 and 4370.

FREN 4391 Commercial French for International Trade *Prerequisites:* FREN 3455 and 3356.

GERM 3311 Talking and Writing about Modern Germany *Prerequisite:* GERM 2312 or equivalent.

GERM 3313 German Today: People, Culture, Society *Prerequisite:* GERM 3311 or permission of instructor.

GERM 4350 History, Culture and Identity in Post-War German Film *Prerequisite:* GERM 3320.

HIST 3303 Modern England, 1867 to the Present

HIST 3324 The Mexican Americans, 1848 to the Present

HIST 3326 The Venture of Islam

HIST 3327 Economic History of the United States

HIST 3328 Economic History of Europe: 1000 A.D. to the Present

HIST 3330 Women in Modern European History

HIST 3337 Ethical Dilemmas in a Global Age

HIST 3341 Soviet/Post-Soviet Society and Politics 1917 to Present

HIST 3343 Twentieth-Century European History (SMU-in-Copenhagen)

HIST 3349 Images of Power (SMU-in-Paris)

HIST 3364 Consumer Culture in the United States, 1770-1990

HIST 3365 Problems in European History: The Making of Modern Europe (S M U - i n - S p a i n)

HIST 3374 Diplomacy in Europe: Napoleon to the European Union

HIST 3376 Social and Intellectual History of Europe

HIST 3380 Problems in Ibero-American History: Latin American History (SMU-in-Spain)

HIST 3382 History of Mexico

HIST 3386 History of the Caribbean

HIST 3387 Asia and the West

HIST 3390 The Modern Middle East: From the Ottoman Empire to OPEC

HIST 3393 China in Revolution

HIST 3395 Problems in Asian History

HIST 3396 Middle Eastern Economic History

HIST 3397 Modernity and Crises of Identity

HIST 3398 Women in Chinese History

HIST 4314 The Jews in Europe (SMU-in-Copenhagen)

HIST 4365 Australian Society (SMU-in-Australia)

HIST 4369 History of Modern Germany

HIST 4381 History of Spain, 1469 to Present

HIST 5390 Seminar in Russian History *Prerequisites:* HIST 3340 or 3341, or permission of instructor.

HIST 5392 Seminar in European History *Prerequisite:* Junior standing or permission of instructor.

ITAL 3373 Italian Culture *Prerequisite:* ITAL 2401.

JAPN 3311 Advanced Japanese

JAPN 3312 Advanced Japanese *Prerequisite:* C- or better in JAPN 3311 or permission of area chair.

JAPN 3501 Japanese Level 2 (SMU-in-Japan)

JAPN 4381 Readings in Japanese Culture and Business *Prerequisite:* JAPN 3312 or permission of area chair.

JAPN 4501 Japanese Level 3 (SMU-in-Japan)

MNO 3300 Environmental Business Strategy (SMU-in-Copenhagen)

MNO 3301 Global Business Strategy (SMU-in-Copenhagen)

PHIL 3352 History of Western Philosophy (Modern)

PLSC 3340 Western European Politics

PLSC 3341 Politics of Participation and Representation in Western Democracies

PLSC 3345 Governments and Politics of the Middle East

PLSC 3346 Governments and Politics of Japan

PLSC 3347 Governments and Politics of Africa

PLSC 3348 Governments and Politics of Latin America

PLSC 3349 Politics of Major Latin American Countries

PLSC 3351 Russia: Superpower in Crisis (SMU-in-Copenhagen)

PLSC 3358 Government and Politics of Russia

PLSC 3359 From Communism to Democracy

PLSC 3365 Communism and Post-Communism

PLSC 3381 Current Issues in International Politics (SMU-in-Oxford)

PLSC 3382 International Organizations: Global and Regional

PLSC 3389 International Political Economy

PLSC 3390 Negotiating International Trade

PLSC 4340 Special Studies in Comparative Government and Politics

PLSC 4353 Governments and Politics of East Asia

PLSC 4354 The Third World and North-South Relations

PLSC 4355 Comparative Political Economy of Industrialized Democracies

PLSC 4356 Latin American Political Economy

PLSC 4358 Soviet Politics: Revolution to Revolution

PLSC 4380 Special Studies in International Relations

PLSC 4386 Issues of U.S.- East Asia Relations

PLSC 4388 Seminar: International and Government Politics

PLSC 4391 NAFTA and Free Trade in the Americas

PLSC 4394 Modern History of China (SMU-in-Taipei)

PLSC 5341 European Politics: The European Union (SMU-in-Copenhagen)

PLSC 5383 Seminar on Regional Conflicts (SMU-in-Copenhagen)

PSYC 3341 Social Psychology

PSYC 5343 Organizational Psychology *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

RELI 3329 Introduction to Islam

RELI 3365 Understanding the Self: East and West

RELI 3366 Magic, Myth and Religion Across Cultures

- RELI 3378** Religions of China
- RELI 3382** Mysticism, East and West
- SOCI 3305** Race and Ethnicity in the United States
- SOCI 3311** Qualitative Research Methods *Prerequisite:* SOCI 2300 or 2310.
- SOCI 3312** Survey Research Methods and Data Analysis *Prerequisite:* SOCI 2300 or 2310
- SOCI 3340** Global Society
- SOCI 3345** Media Ethics and Gender
- SOCI 3360** Law and Society
- SOCI 3370** Minority-Dominant Relations
- SOCI 3371** Sociology of Gender
- SOCI 3372** Chicanos in the Southwest
- SOCI 3383** Race, Culture and Social Policy in the Southwest
- SOCI 4321** Immigration and Population Issues *Prerequisites:* Either SOCI 2300 or SOCI 2310, and either SOCI 3311 or 3312.
- SOCI 4335** Social Movements and Collective Behavior *Prerequisites:* Either SOCI 2300 or SOCI 2310, and either SOCI 3311 or 3312.
- SOCI 4340** Sociology of Culture *Prerequisites:* Either SOCI 2300 or SOCI 2310, and either SOCI 3311 or 3312.
- SOCI 4353** Political Sociology *Prerequisites:* Either SOCI 2300 or SOCI 2310, and either SOCI 3311 or 3312.
- SOCI 4379** Markets and Culture Internship *Prerequisites:* SOCI 2377 and 3377, and permission of program director.
- SPAN 3311** Conversation and Composition: Peninsular Culture *Prerequisite:* C- or better in SPAN 2401 or equivalent.
- SPAN 3312** Conversation and Composition: Mexican Culture *Prerequisite:* C- or better in SPAN 2401 or equivalent.
- SPAN 3313** Conversation and Composition: Latin American Culture *Prerequisite:* C- or better in SPAN 2401 or equivalent.
- SPAN 3355** Spanish Conversation *Prerequisite:* C- or better in SPAN 2401 or equivalent.
- SPAN 3358** Advanced Spanish Grammar *Prerequisite:* C- or better in SPAN 2401 or equivalent.
- SPAN 3373** Spanish Civilization (SMU-in-Spain) *Prerequisite:* One 3000-level Spanish course.
- SPAN 3374** Spanish American Civilization (SMU-in-Xalapa, Mexico) *Prerequisite:* C- or better in one 3000-level Spanish course.
- SPAN 4391** Commercial Spanish for International Trade *Prerequisites:* C- or better in SPAN 3358 and one of the following: SPAN 3311, 3312, 3313, 3355; or permission of instructor.
- SPAN 4395** Introduction to Hispanic Literature *Prerequisite:* C- or better in SPAN 3358, or departmental permission.

MATHEMATICS

www.smu.edu/math

Professor Peter Moore, **Department Chair**

Professors: John Chen, Ian Gladwell, Richard Haberman, George Reddien, Douglas Reinelt, Lawrence Shampine, Richard Williams; **Associate Professors:** Thomas Carr, Robert Davis, Mogens Melander, Montie Monzingo; Johannes Tausch; **Assistant Professors:** Vladimir Ajaev, Bruce Ayati, Yeo-Jin Chung, Sheng Xu, Yunkai Zhou; **Lecturers:** Judy Newell, Carol Seets.

Requirements for the Bachelor of Science Degree With a Major in Mathematics. The B.S. degree in mathematics reflects contemporary trends in mathematics by incorporating computer science, mathematical and computational modeling, natural science, and statistics courses. This degree is particularly appropriate for students who wish to proceed toward careers in industry concentrating on analytical problem solving, or toward graduate schools in any mathematical science area. Computer science, economics, electrical engineering, mechanical engineering, management science, physics and chemistry provide attractive opportunities as areas for a double major with mathematics. With a minimum of 21 approved advanced hours in the major, the following courses are required:

	<i>Term Hours</i>
<i>Fundamental Mathematics:</i> MATH 1337, 1338, 2339, 2343	12
<i>Natural Science:</i> Choose two from PHYS 1303, 1304; CHEM 1303, 1304; BIOL 1401, 1402; GEOL 1301	6
<i>Computer Science:</i> CSE 1340 or 1341	3
<i>Statistics:</i> STAT 4340/CSE 4340/EMIS 4340 (Students may substitute STAT 5340/EMIS 5370 or EE 3360)	3
<i>Advanced Mathematics Elective:</i> MATH 3000+ course	3
<i>Specialization in one of the following five areas:</i>	15

In each specialization, five courses must be taken with a minimum of two courses at the 4000+ level, including at least one MATH 4000+ course.

- I. *Applied and/or Numerical Mathematics*
MATH 3315/CSE 3365 (mandatory)
Four from MATH 3334, 3337, 3353, 5315, 5316, 5331, 5332, 5334, 5353, EMIS 3360
- II. *Computer Science and Computer Engineering*
MATH 3315/CSE 3365 (mandatory), CSE 4381 (mandatory)
Three from MATH 3353, 5315, 5316, 5332
- III. *Engineering*
MATH 3315/CSE 3365 (mandatory), MATH 3337 (mandatory)
One from Group I: MATH 5315, 5331, 5332, 5334
Electrical Engineering
Two from Group II: EE 3322, 3330, 3372, 5330, 5332, 5336, 5360, 5362, 5372
Mechanical Engineering
Two from Group II: ME 4360, 5302, 5320, 5322, 5336/MATH 6336, 5336, 5337, 5338, 5339, 5340, 5341, 5342, 5343, 5344, 5345, 5346, 5347, 5348, 5349, 5350, 5351, 5352, 5353, 5354, 5355, 5356, 5357, 5358, 5359, 5360, 5361, 5362, 5363, 5364, 5365, 5366, 5367, 5368, 5369, 5370, 5371, 5372, 5373, 5374, 5375, 5376, 5377, 5378, 5379, 5380, 5381, 5382, 5383, 5384, 5385, 5386, 5387, 5388, 5389, 5390, 5391, 5392, 5393, 5394, 5395, 5396, 5397, 5398, 5399, 5400
Civil Engineering
MATH 3315/CSE 3365 (mandatory), MATH 3337 (mandatory)
One from Group I: MATH 5315, 5331, 5332, 5334
Two from Group II: ENCE 5361, ENCE 5364, ME 5322
Environmental Engineering

MATH 3315/CSE 3365 (mandatory), MATH 3337 (mandatory)

MATH 6336/ME 5336 (mandatory)

One from Group I: MATH 5315, 5331, 5332, 5334

One from Group II: ENCE 5331, 5332, 5334

IV. *Operations Research*

MATH 3315/CSE 3365 (mandatory) EMIS 3360 (mandatory)

Two from Group I: MATH 3353, 5315, 5316, 5332, 5353

One from Group II: EMIS 5361, 5362, 5369, STAT 5344/EMIS 5364

V. *Pure Mathematics*

Five from MATH 3308, 3337, 3353, 4338, 4351, 4355, 4381, 5331, 5332, 5353

Requirements for the Bachelor of Arts Degree With a Major in Mathematics.

The B.A. degree in Mathematics is designed for students who need a traditional mathematics degree leading to careers in teaching, industry, business and government. It is particularly attractive when combined with liberal arts, social science or business administration as a double major. The requirements are the same as for the Bachelor of Science degree except that there is no natural science requirement. In exceptional circumstances, the Department of Mathematics may choose to waive one course (three term-credit hours) in mathematics.

MATH 6000-level courses may also be taken for either major by students who have fulfilled the prerequisites and have departmental permission.

NOTE: All mathematics majors, either B.S. or B.A., must receive a grade of at least C- in all courses taken in fulfillment of the requirements for the m a t h e m a t i c s m a j o r .

Requirements for the Mathematics Minor. MATH 1337, 1338, 2339 and nine hours selected from mathematics courses at the advanced (3000+) level. MATH 2343 (Elementary Differential Equations) may replace an advanced-level mathematics course. All courses in the minor must be passed with a grade of C- or higher.

For All Undergraduates: After a student matriculates to SMU, transfer credit for MATH 1307, 1309 or MATH 1337 will not be approved.

The Courses (MATH)

1303. Precalculus for Business. Inequalities, absolute value, graphs, functions, basic analytic geometry, polynomials, logarithms, exponentials, linear equations and mathematics of finance. *Prerequisite:* High school algebra. No credit given if taken after any calculus course. Credit not given for both 1303 and 1304. Intended for students planning to take MATH 1309.

1304. Precalculus Mathematics. Graphs, functions, basic analytic geometry, exponentials, logarithms, trigonometry, inverse functions. *Prerequisites:* High school algebra and trigonometry. No credit given if taken after any calculus course. Credit not given for both MATH 1303 and 1304. Intended for students planning to take MATH 1337.

1307. Introduction to Mathematical Sciences. Permutations and combinations, probability, Markov chains, linear programming, elementary statistics and mathematics of finance. *Prerequisite:* High school algebra.

1309. Introduction to Calculus for Business and Social Science. Derivatives and integrals of algebraic, logarithmic, and exponential functions with applications to the time value of money, curve sketching, maximum-minimum problems, and computation of areas. Applications to business and economics. (Natural science and engineering students must take MATH 1337. Credit not allowed for both MATH 1309 and 1337.) *Prerequisite:* Placement out of MATH 1303 or a grade of C– or higher in MATH 1303.

1337. Calculus I. Differential and integral calculus for algebraic, trigonometric and transcendental functions, with applications to curve sketching, velocity, maximum-minimum problems, areas. (Credit not allowed for both MATH 1309 and 1337.) *Prerequisite:* Placement out of MATH 1304 or a grade of C– or higher in MATH 1304.

1338. Calculus II. A continuation of MATH 1337 through differential and integral calculus, techniques of integration, and infinite sequences and series, including Taylor series. *Prerequisite:* A grade of C– or higher in MATH 1337 (or MATH 1309 and departmental permission).

2339. Calculus III. A continuation of MATH 1338 including parametric equations, polar coordinates, partial differentiation, multiple integrals and vector analysis. *Prerequisite:* A grade of C– or higher in MATH 1338.

2343. Elementary Differential Equations. First order equations, linear equations, Laplace transforms, power series solutions and applications. *Prerequisite:* A grade of C– or higher in MATH 1338.

3308. Introduction to Discrete Mathematics. An introduction to logic, set theory, graph theory, recurrence relations and combinatorics. Mathematical foundations and applications of these subjects are presented. (Credit not allowed for both CSE 2353 and MATH 3308.) *Prerequisite:* A grade of C– or higher in MATH 1338.

3315 (CSE 3365). Introduction to Scientific Computing. An elementary survey course that includes techniques for root-finding, interpolation, functional approximation, linear equations and numerical integration. Special attention is given to MATLAB programming, algorithm implementations and library codes. *Prerequisites:* A grade of C– or higher in MATH 1338. *Corequisite:* CSE 1340 or 1341; Students registering for this course must also register for an associated computer laboratory.

3334. Mathematical Modeling and Applications. Discussion of modeling principles such as conservation laws, dimensional analysis and scale, model validation and the continuum hypothesis. Applications may include vibrations, traffic flow, population dynamics and optimization. *Prerequisite:* MATH 2343.

3337. Advanced Mathematics for Science and Engineering. Elements of vector integral calculus, Fourier series, and boundary-value problems in partial differential equations. (No credit given if taken after MATH 5334.) *Prerequisites:* Grades of C– or higher in MATH 2343 and 2339.

3353. Introduction to Linear Algebra. Matrices and linear equations, Gaussian elimination, determinants, rank, geometrical notions, eigenvalue problems, and coordinate transformations, norms, inner products, orthogonal projections, Gram-Schmidt and least squares. (No credit given if taken after MATH 5353.) *Prerequisite:* A grade of C– or higher in MATH 1338.

4300. Independent Study in Math. Independent study of a selected topic in mathematics. *Prerequisite:* By arrangement with faculty sponsor and with departmental approval.

4335. Mathematical Biology. Introduction of mathematical models of biological sys-

tems. Population dynamics, infectious diseases, population genetics, molecular and cellular biology. *Prerequisites*: MATH 2343 and MATH 3353.

4338. Analysis. Sequences and series of real numbers and functions, properties of continuous functions, differentiation and integration with some attention paid to higher dimensions. *Prerequisite*: MATH 2339.

4351. Theory of Numbers. Classical number theory, including divisibility, congruencies, quadratic reciprocity, Diophantine equations and number theoretic functions. *Prerequisite*: MATH 3308 or 3353.

4355. Groups and Rings. Basic properties of groups, rings and fields, homomorphisms, normal subgroups, integral domains, ideals, algebraic extension fields, geometric constructions. *Prerequisite*: MATH 3308 or 3353.

4381. Introduction to General Topology. Elementary topology of the line and plane, metric spaces, and general topological spaces: continuity of mappings, connectedness, compactness, completeness and fixed-point theorems. *Prerequisite*: MATH 3308, MATH 3353 or instructor's permission.

5315 Introduction to Numerical Analysis. Numerical solution of linear and nonlinear equations, interpolation and approximation of functions, numerical integration, floating point arithmetic, and the numerical solution of initial value problems in ordinary differential equations. Student use of the computer is emphasized. *Prerequisites*: MATH 3315/CSE 3365 and MATH 2343; a programming course (e.g., C, FORTRAN or MATLAB).

5316. Introduction to Matrix Computation. The efficient solution of dense and sparse linear systems, least squares problems and eigenvalue problems. Elementary and orthogonal matrix transformations provide a unified treatment. Programming will be in MATLAB with a focus on algorithms. *Prerequisites*: MATH 3353; MATH 3315/CSE 3365.

5331. Functions of a Complex Variable. Complex numbers, analytic functions, mapping by elementary functions, complex integration. Cauchy-Goursat theorem, Cauchy integral formulas. Taylor and Laurent series, residues, evaluation of improper integrals. Applications of conformal mapping and analytic functions. *Prerequisite*: MATH 3337.

5332. Wavelet Transforms. A mathematical introduction to sampling, data compression, multiresolution analysis, Fourier analysis and wavelet theory, including biorthogonal wavelets and spline wavelets. *Prerequisites*: MATH 3337, 3353 and 3315/CSE 3365.

5334. Introduction to Partial Differential Equations. Elementary partial differential equations of applied mathematics: heat, wave, and Laplace's equations. Topics include physical derivations, separation of variables, Fourier series, Sturm-Liouville eigenvalue problems, Bessel functions, Fourier transforms. *Prerequisite*: MATH 3337.

5353. Linear Algebra. Spectral theory of Hermitian matrices, Jordan normal form, Perron-Frobenius theory, convexity. Applications include image compression, Internet page rank methods, optimization, linear programming. *Prerequisite*: MATH 3353..

MEDIEVAL STUDIES

www.smu.edu/medievalstudies

Associate Professor Bonnie Wheeler, Director

Ranging from the 4th century A.D. to 1485, from Celtic Britain to Visigothic and Islamic Spain, Byzantium to Persia and the Caliphate, from script to print, from feast to fast, from fine arts to liberal arts, from Augustine to Saladin and beyond; this program offers an intense and condensed liberal education. Studies reveal how the historical shapes, institutional structures, literary visions and artistic forms that emerged from the Middle Ages have colored our

concepts of God, society, self, love, individualism and success.

The Medieval Studies Program affords the student an opportunity for a “classically” liberal education within a broad subset of “Western” (Celtic, Franconic, Italic, Germanic, Visigothic) and “non-Western” (Byzantine, Islamic, Persian) contexts. It is appropriate for preprofessional training in multiple fields, ranging from business to religious studies and from biology to music theory and foreign languages and literatures. It can also lead to graduate work in medieval studies or (more usually) in such disciplines as literature, history and art/music history.

The Dallas Medieval Consortium makes it possible for students at SMU, the University of Dallas and the University of Texas-Dallas to enroll in selected medieval studies courses on the other campuses. Through the Consortium, SMU students can elect no more than a total of 15 hours in medieval subject courses at any other Consortium university.

Requirements for the B.A. Degree. Medieval Studies is an interdisciplinary major of 30 hours in medieval subjects, and Latin language and literature, distributed over at least three broad subject areas in medieval studies: 1) history, 2) literature, and 3) music and visual arts (art/music history), with no less than six hours in each area. Latin language and literature courses after the second year may, with the approval of the director, count toward hours for the Medieval Studies major. Students are encouraged to take courses in philosophy, religious studies and church history, as they are available. Individual student programs are approved by the Director of Medieval Studies and a committee of two other members of the SMU Medieval Studies faculty.

Requirements for the Minor. A student must complete 15 hours from the courses listed, including at least three interdisciplinary and nine advanced hours. No more than six hours at the introductory (1000 or 2000) level may be counted; some of the MDVL and CF (Cultural Formations) courses listed below are also interdisciplinary. Other courses may satisfy the interdisciplinary component. Individual student programs are approved by the Director of Medieval Studies.

As a model, the following is a typical Medieval Studies major sequence for SMU students:

Sophomore year

Fall term:

MDVL 3351 (CF 3351) The Pilgrimage: Images of Medieval Culture

LATN 1401 Beginning Latin

Spring term:

ENGL 3320 Topics in Medieval Literature

LATN 1402 Beginning Latin

Junior year

Fall term:

ARHS 3320 Medieval Art*

LATN 2311 Second-Year Latin

HIST 3350 Life in the Medieval World, A.D. 306-1095*

Spring term:

MDVL 3329 (ENGL 3329, CF 3302) The World of King Arthur*

HIST 3351 Life in the Medieval World, A.D. 1095-1350*

LATN 2312 Second-Year Latin

Senior year

Fall term:

HIST 4325 Islam to A.D. 1453*

ARHS 3392 Islamic Art and Architecture: The Creation of a New Art *

LATN 3324 Advanced Latin Grammar and Composition*

Spring term:

ARHS 3325 Art of the Crusades*

ENGL 4323 Chaucer

HIST 3352 The Age of the Crusades*

Many courses are offered each year; with few exceptions, the remainder are available at least every other year. Consult with the director about offerings
a n d f r e q u e n c y .

Medieval Studies

ARHS 3320 Medieval Art

ARHS 3321 Age of the Crusades

ARHS 3322 Art and the Italian Commune

ARHS 3323 Romanesque Art and Architecture

* Credit toward Medieval Studies major.

ARHS 3324 Art and Cultures of Medieval Spain

ARHS 3325 The Gothic Cathedral

ARHS 3328 Byzantine Art

ARHS 3329 Paris Art and Architecture I (SMU-in-Paris)

ARHS 3392 (CFA 3313) Islamic Art and Architecture

ARHS 3399 Medieval Jewish-Christian Dialogue in Art & Text

ARHS 4320 Seminar in Medieval Art

ARHS 4321 Word and Image: Seminar in Early Middle Ages

ENGL 1320 Chivalry

ENGL 3320 Topics in Medieval Literature

ENGL 3371 (HIST 3357, CF 3363) Joan of Arc in History, Literature and Film

ENGL 3389 Directed Studies

ENGL 4320 Medieval Writers

ENGL 4323 Chaucer

FL 3365 Special Topics: French Literature in Translation (When applicable)

FL 3366 Special Topics: French Literature in Translation (When applicable)

FL 3393 Dante's Poetic Vision

FL 3391 Special Topics: Italian Literature in Translation (When applicable)

FL 3392 Special Topics: Italian Literature in Translation (When applicable)

FREN 5320 Literary Periods (When applicable)

FREN 5321 Literary Periods (When applicable)

FREN 5334 Genre Studies (When applicable)

FREN 5335 Genre Studies (When applicable)

HIST 2321 Philosophical and Religious Thought in the Medieval West

HIST 3332 Ancient and Medieval France

HIST 3344 (CF 3394) The Oxford Landscape: From the Stone Age to the Tudors
(SMU-in-Oxford)

HIST 3345 England in Medieval and Early Modern Times (SMU-in-Oxford)
HIST 3350 Life in the Medieval World, A.D. 306-1095
HIST 3351 Life in the Medieval World, A.D. 1095-1350
HIST 3352 Age of the Crusades
HIST 3357 (ENGL 3371, CF 3363) Joan of Arc: History, Literature and Film
HIST 4320 Medieval Europe I
HIST 4321 Medieval Europe II
HIST 4322 Constitutional and Legal History of Medieval England
HIST 4323 History of Ireland
HIST 4324 Medieval Spirituality
HIST 4325 Islam to A.D. 1453
HIST 4326 Anglo-Saxon England to A.D. 1160
HIST 4380 History of Spain to 1492
HIST 4384 Early and Medieval England from the Beginning to 1485
HIST 5364 The City of God: Utopias in The Christian Tradition
HIST 5378 Medieval Renaissances
HIST 5392 Seminar in European History Autobiographical Tradition (when applicable)
LATN 3324 Advanced Latin Grammar and Composition
LATN 3335 Medieval Latin
MDVL 3321 (CF 3321) The Birth of the Individual
MDVL 3323 Tales of Wales
MDVL 3327 The Unicorn: Understanding Varieties of the Truth in the Middle Ages
MDVL 3329 (ENGL 3329, CF 3302) The World of King Arthur
MDVL 3351 (CF 3351) The Pilgrimage: Images of Medieval Culture
MDVL 3352 (CF 3352) Ideas and Ideals of Gender in the Middle Ages
MDVL 3353 (CF 3353) Medieval Ideas
MDVL 3398 Directed Studies
MDVL 3399 Directed Studies
MDVL 4371 Special Topics
MDVL 5301 Independent Studies
MDVL 5302 Independent Studies
MDVL 5398 Independent Studies
MDVL 5399 Independent Studies
MUHI 3301 Survey of Music History I
MUHI 4301 Research Project in Music History (when applicable)
MUHI 4392 Directed Studies in Music History: The Middle Ages
MUHI 6309 Seminar in Medieval and Renaissance Sources and Styles
PERE 3075 Collegium Musicum
PERE 3175 Collegium Musicum
PHIL 3351 History of Western Philosophy (Ancient)
PLSC 4361 Political Regimes: Understandings of Rome
PLSC 4362 Medieval Political Philosophy
RELI 3326 Introduction to the New Testament
RELI 3349 Early Christianity
SPAN 5310 Spanish Literature Before 1700

The Courses (MDVL)

3321. The Birth of the Individual. Examines several basic notions pertaining to self-hood, including consciousness, cognition, motivation, personal identity and decision, as found in medieval texts.

3323. Tales of Wales. Survey of native Welsh literature (in translation) from the sixth

to the 20th century. Primary focus is on medieval and Arthurian texts and their influence on the British and European literary imagination.

3327. The Unicorn: Understanding Varieties of the Truth in the Middle Ages. Investigates the question of how history and fiction were perceived in the Middle Ages.

3329. The World of King Arthur. Investigates Britain's greatest native hero and one of the world's most compelling story stocks: the legend of King Arthur and the Round Table, and the early Arthurian materials and the later romance, epic and artistic traditions.

3351. The Pilgrimage: Images of Medieval Culture. An exploration of the medieval world through one of its own literal and metaphorical images, moving from Jerusalem to the empire of New Rome, to Rome itself and across Europe on the pilgrimage roads of the Middle Ages.

3352. Ideas and Ideals of Gender in the Middle Ages. Focuses on the status of women in the Middle Ages and the impact of ideas regarding the feminine on the development of (mostly) Western thought.

3353. Medieval Ideas. Presents some of the classic achievements of the medieval mind. While the main focus will be on Medieval Europe and the adjacent Muslim world, wherever possible students' attention will be drawn to developments in other cultures.

3398, 3399. Directed Study.

5301, 5302, 5398, 5399. Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

NATURAL SCIENCES

Professor Christine Buchanan, **Director**

A minor in the Natural Sciences offers students a systematic exposure to biology and chemistry. It is particularly suitable for Engineering majors who are interested in medicine, dentistry or other biomedical careers. This interdisciplinary minor may not be selected by students majoring or minoring in the Biological Sciences, Biochemistry or Chemistry. Each advanced course must be taken in residence.

Required Courses

BIOL 1401, 1402 Introductory Biology

BIOL 3350 Cell Biology

CHEM 1301, 1113, 1304, 1114 General Chemistry

CHEM 3371, 3117, 3372, 3118 Organic Chemistry

Select one of the following:

BIOL 3306 Physiology (note that **BIOL 3350** is a prerequisite) or **BIOL 3304** Genetics.

PHILOSOPHY

www.smu.edu/philosophy

Associate Professor Eric Barnes, **Department Chair**

Professor: Doug Ehring; **Associate Professors:** Eric Barnes, Steven Sverdlik; **Assistant Professors:** Philippe Chuard, Soraya Gollop, Robert Howell, Luke Robinson, Brad Thompson; **Lecturer:** Clayton Littlejohn; **Adjunct Professors:** Stephen Anderson, Scott Bartlett, Stephen Hiltz, Jean Kazez, James Lamb; **Adjunct Associate Professor Emeritus:** Benjamin Petty.

Requirements for the B.A. Degree. At least 30 term hours in the department, including at least 21 term hours of advanced work (courses 3000 and

above). The 30 hours must include PHIL 1301, 3351, 3352 and at least one course from 3310-3319. At least 12 hours of a foreign language are strongly recommended.

The Departmental Distinction Program. Departmental distinction is awarded to philosophy majors graduating with at least a 3.50 G.P.A. in philosophy and who successfully complete a writing project under the guidance of a faculty member.

Requirements for the Minor in Philosophy. Students majoring in other departments may obtain a minor in philosophy. The minor will consist of 15 hours of work in the department. No more than six hours may be from 1000-level courses, and at least one course (three hours) must be chosen from the History of Philosophy sequence (3351 or 3352). It is *recommended* that each student minoring in Philosophy take *one* of the department's general introductory courses.

Requirements for the Minor in Ethics. Students majoring in departments other than the Philosophy Department may obtain a minor in Ethics. The minor consists of at least 15 hours, which must include the following philosophy courses: 1) PHIL 1305 or 1306 (Introduction to Philosophy); 2) one of PHIL 1316 (Introduction to Ethics), 1317 (Business Ethics), or 1318 (Contemporary Moral Problems); and 3) three from the sequence of PHIL 3371 through 3381.

The Courses (PHIL)

1300. An Introduction to Practical Reasoning. Learning to analyze, evaluate and present information in order to better assess one's own beliefs and to persuade others more effectively.

1301. Elementary Logic. An introductory course in symbolic logic. Logic provides a means for determining whether the purported conclusion of an argument really does follow from the premises. In symbolic logic, mechanical procedures are developed for determining whether a given argument is valid. The techniques and skills acquired through logic have important applications not only within other academic areas such as the sciences and humanities, but may be of use within various professional areas, including law.

1305. Introduction to Philosophy. A general introduction to the central questions of philosophy. Topics include the theory of knowledge, philosophy of religion, metaphysics, philosophy of mind, ethics and political philosophy. Typical questions might include: Can we know the world outside our minds? Is it rational to believe in a God who allows evil to exist? Do the laws of physics allow for human freedom? Is morality more than a matter of opinion? Can there be unequal wealth in a just society? Readings will include classical authors such as Plato, Descartes, Locke, Hume and Mill, as well as contemporary philosophers. The focus of the course will be on arguments for and against proposed solutions to key problems of philosophy.

1306. Introduction to Philosophy: Minds, Machines and Persons. A focused introduction to the central questions of philosophy, with an emphasis on the mind and the self. Typical questions might include: Does the soul exist? Is the mind the same thing as the brain? Can animals feel pain? Can they think? Can a computer think? Might the mind be a computer? What is consciousness? Can we understand experiences radically different from our own? What is the self? Can we survive the death of our body? The focus of the course will be on arguments for and against proposed solutions to philosophical problems

concerning mind, machines and persons.

1316. Introduction to Ethics. A survey of leading theories of value and right conduct and exploration of some of their applications.

1317. Business Ethics. A discussion of the moral and political issues surrounding a free-enterprise system. Students will be introduced to basic moral theory. Further topics will include distributive (or economic) justice, the moral preferability of capitalism and socialism, and selected concrete moral issues such as truth in advertising, worker safety and affirmative action.

1318. Contemporary Moral Problems. An examination of current moral and legal issues. Topics may include abortion, euthanasia, animal rights, affirmative action, racism, sexism, drug legalization, censorship and homosexuality.

3301. Intermediate Logic. Students are introduced to the formal theory of the logical systems they have already learned to use: namely, Sentential Logic and Predicate Logic. Students will learn to prove the completeness and soundness of both of these systems. In addition, they may also learn some simple nonstandard logical systems, such as Modal, Epistemic or Deontic logic, if time permits. *Prerequisite:* PHIL 1301, or its equivalent.

3302 (RELI 3302). Problems in the Philosophy of Religion. The philosophy of religion, considering such problems as religious experience, human freedom, good and evil, belief in God, and immortality.

3305. Philosophy and Gender. A consideration of whether or not there are differences between the sexes; whether or not Western science, philosophy and ethics have been dominated by "male thinking;" and current issues such as pornography, censorship, rape, reproductive technologies, etc. Writings by feminist philosophers as well as their critics will be examined.

3310. Advanced Topics in Philosophy. (May be repeated for credit.)

3311. 20th Century Philosophical Analysis. An examination of the method of philosophical analysis as practiced by such 20th century philosophers as Moore, Russell, Wittgenstein, Quine, Austin and others.

3312. Introduction to the Philosophy of Language. A systematic treatment of such topics as the nature of linguistic reference, meaning, synonymity, truth, vagueness and metaphor. The course will also examine issues relating to the goals and methodology of linguistics, such as the status of semantic descriptions, and the "nature versus nurture" controversy in language-acquisition theories.

3313. Epistemology. A systematic treatment of such topics as skepticism, analyses of factual knowledge, theories of epistemic justification, foundational versus coherence theories of knowledge, and the relationship between psychology and a philosophical account of knowledge.

3314. Metaphysics. A study to acquaint the student with traditional metaphysical issues such as the problem of universals, the existence of other minds, continuants, the mind-body problem, and the existence of God.

3315. Philosophy of Mind. A systematic treatment of the nature of consciousness, self and person.

3333. Topics in Philosophy. (May be repeated for credit.)

3351. History of Western Philosophy (Ancient). A study of the major philosophers from Thales to Plotinus, including Plato and Aristotle.

3352. History of Western Philosophy (Modern). A study of major developments in modern Western philosophy from Descartes to Kant.

3362 (CF 3341). Creativity, Discovery and Science. An investigation into the nature of science and of scientific reasoning. Central questions to be considered include: What is the nature of the scientific method? Is science rational? What is the nature of evidence and explanation? To what extent do social realities (e.g., religious faith, prevailing politics, gender issues) play a role in influencing the outcome of scientific disputes? The course will combine philosophical analysis with studies in the history of science to investigate these and other questions.

3363 (CF 3308). Aesthetic Experience and Judgment. A good deal of attention is devoted to these questions: What is beauty? Are there any standards or rules concerning what is beautiful? What is art? Why is art an important part of human culture? The course will also consider the role of emotion in art, the problem of correct interpretation, and the nature of tragedy.

3366. Philosophy in Literature. A nontechnical introduction to philosophy by an examination of traditional philosophical problems embodied in great works of fiction.

3370. Nineteenth-Century Philosophy. A detailed study of selected major thinkers from the 19th century, such as Kant, Hegel, Kierkegaard, Nietzsche, Schopenhauer, Fichte, Feuerbach and Marx.

3371 (CF 3342). Social and Political Philosophy. A historical study of philosophical formulation of the individual good (ethics) in its relation to the public good (social philosophy).

3373. Punishment and Responsibility. By what right does society punish some people? What is the correct amount of punishment? Who ought to be punished? Various philosophical responses to these questions are examined. Other topics include the morality of capital punishment, excuse and justification, the morality of self defense, and the justifiability of punishing "self-regarding" acts such as drug use.

3374 (CF 3307). Philosophy of Law. An analysis of the foundations and nature of law.

3375. Topics in Moral Philosophy. A topics offering that seeks to take advantage of the wide variety of issues that can be fruitfully explored in a course on moral philosophy. (May be repeated for credit.)

3376. Medical Ethics. An introduction to the moral dimensions of decision-making in medical contexts.

3377 (CFA 3377). Animal Rights. An examination of the moral status of nonhuman animals, and its implications for the common use of animals as food and experimental subjects for humans.

3380. Doing the Right Thing: Contemporary Views of Morality. A study of contemporary ethical theory.

3382. Twentieth-Century European Philosophy. An examination of some methods and principles of European philosophies in the 20th century. Philosophical schools studied: phenomenology, existentialism, Neo-Kantianism, life-philosophy, hermeneutics, and Neo-Marxist critical theory.

3383. American Philosophy. Historical development and contemporary themes in American philosophy. Varying emphasis may be placed on trends (e.g., pragmatism), historical figures (e.g., Dewey), or influential contemporary figures (e.g., Quine).

4381. Philosophy in the Iber-American World. A survey of Latin American philosophy as it relates to the social and cultural development of Latin America. (SMU in Madrid only.)

4393, 4394. Independent Study and Research. Special topics to be selected by the student in consultation with the department. *Prerequisites:* Senior standing and departmental approval.

5310. Phenomenology. An explication of the main features, concepts and methods of phenomenology, and its relation to the history and problems of philosophy and other disciplines. *Prerequisite:* PHIL 3352 or permission of instructor.

6311, 6312. Philosophical Studies. Independent work on special topics.

PHYSICS

www.smu.edu/physics

Professor Ryszard Stroynowski, **Department Chair**

Professors: Fred Olness, Vigdor Teplitz; **Associate Professors:** Thomas Coan, Kent Hornbostel, Roberto Vega; **Assistant Professors:** Robert Kehoe, Jingbo Ye; **Senior Lecturer:** Randall Scalise; **Visiting Assistant Professor:** Simon Dalley; **Adjunct Lecturer:** John Cotton; **Emeriti Professors:** Jeff Chalk, George Crawford; **Research Professors:** Marc Christensen, Gary Evans, Peggy Gui, Cas Milner, Shane Palmer, Byron Williams.

The Physics Department offers a program consisting of course studies in broad areas of classical and modern physics, and research studies in both experimental and theoretical physics.

The research activities of the faculty are focused primarily in high energy, elementary particle physics and related fields. The advanced classes are small, so there is ample opportunity for students to work closely with the Physics faculty, particularly in the advanced laboratories where students become familiar with state-of-the-art equipment. Undergraduate physics majors are strongly encouraged to participate in research activities. A majority of majors go on to pursue advanced degrees upon graduation from SMU.

Bachelor of Science Degree. This degree program is designed for students who plan careers in physics in industry, laboratories or academia. A candidate for the B.S. degree must complete a minimum of 38 term hours in physics, including PHYS 1105, 1106, 1303†, 1304† (or 1307 and 1308), 3305, 3344, 3374, 4211, 4321, 4392, 5382 and 5383. (PHYS 3345 may be substituted for 4321.) An additional laboratory course, PHYS 4112, is strongly recommended. Additional courses may be chosen from a variety of physics electives or in related fields with departmental permission. A candidate for the B.S. degree must also complete 15 term hours of courses in mathematics, including MATH 1337, 1338, 2339, 2343 and one advanced mathematics course. Students planning to pursue graduate studies are encouraged to complete more than the minimum 38 credit hours in physics and 15 credit hours in mathematics.

Bachelor of Arts Degree. This degree program is appropriate for students who wish to combine a physics curriculum with a broad liberal arts program with the aim of pursuing careers in medicine, teaching, business and government. A candidate for the B.A. degree must complete a minimum of 30 term hours in physics, including PHYS 1105, 1106, 1303†, 1304† (or 1307 and 1308), 3305, 3344, 4211, 4392 and 5382. Additional courses may be chosen from the available physics electives or in related fields with depart-

mental permission. Additionally, a candidate for the B.A. degree must complete 15 term hours of courses in mathematics, including MATH 1337, 1338, 2339, 2343 and one advanced mathematics course.

Minor in Physics. A minor in physics is particularly appropriate for majors in the natural sciences, including pre-med, mathematics and engineering. The departmental requirement for a minor in physics is 17 term hours in physics, including PHYS 1105, 1106, 1303†, 1304† (or 1307 and 1308), and nine hours of advanced course work.

The Departmental Distinction Program. A physics major achieving a B.S. degree may graduate “with departmental distinction” by successfully completing a special program of study in addition to the requirements stated above, while maintaining a minimum G.P.A. of 3.50. The special program consists of independent reading, research and senior thesis under the direction of a departmental faculty member. The student must apply to the department for this designation during his or her junior year. The student will enroll in either PHYS 4375 or 4390 during the program, and a senior thesis is to be written and presented to the faculty.

Simultaneous Degree Programs. It is also possible to earn simultaneously a B.S. degree in physics from Dedman College and a degree in engineering from the School of Engineering. The undergraduate adviser of the Department of Physics should be consulted for detailed information on the simultaneous degree programs.

**Bachelor of Science in Electrical Engineering
and Bachelor of Science in Physics**

The Electrical Engineering Department and the Physics Department offer an integrated curriculum that enables a student to obtain both a Bachelor of Science in Electrical Engineering (B.S.E.E.) degree and a Bachelor of Science (B.S.) degree with a major in Physics.

Curriculum Notes

The minimum requirements for the dual degrees of Bachelor of Science in Electrical Engineering and Bachelor of Science in Physics are as follows:

Curriculum Requirements	Term Credit Hours
College Requirements:	
	ENGL 1301, 1302, Perspectives including ECO 1311 Cultural Formations, and Wellness 23
Mathematics:	MATH 1337, 1338, 2339, 2343 and a three-hour elective course at the 3000 level or above 15
Science:	CHEM 1303 or 1305; PHYS 1105, 1303, 1304, 3305, 3344, 4211, 4321, 5337, 5382 and 5383; and PHYS 3374 Formations, and Wellness 23 or ME 3341 33
Computer Science:	CSE 1341 3
Engineering Leadership:	Two of EMIS 3308, ENCE 3302,

Core Electrical Engineering:	EMIS 3309 or CSE 4360 EE 1382, 2122, 2170, 2181, 2322, 2350, 2370, 2381 and 3360	6
Junior Electrical:	EE 3122, 3181, 3322, 3381, either 3330 or PHYS 4392; and two of EE 3311, or 3372	17
College Requirements:	ENGL 1301, 1302, Perspectives including ECO 1311 Cultural Formations, and Wellness	23
Advanced Electrical Engineering Electives:		12
Senior Design Sequence:	EE 4311 and 4312	6
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Minimum total hours required		136

**Bachelor of Science in Mechanical Engineering
and Bachelor of Science in Physics**

The Mechanical Engineering Department and the Physics Department offer a curriculum that enables a student to obtain both a Bachelor of Science in Mechanical Engineering and a Bachelor of Science in Physics.

†Students with a strong high school preparation in physics may take a departmental placement examination to acquire credit for either PHYS 1303 or 1304; the placement exam *must* be taken during the student's first term at SMU.

Curriculum Notes

The minimum requirements for the dual degrees of Bachelor of Science in Mechanical Engineering and Bachelor of Science in Physics are as follows:

<i>Curriculum Requirements</i>	<i>Term Credit Hours</i>	
General Education:	ENGL 1301, 1302, Perspectives and Cultural Formation courses	21
Mathematics:	MATH 1337, 1338, 2339, 2343, STAT 4340	15
Sciences:	PHYS 1303, 1304, 3305, 3344, 3374, 4211, 4321, 4392, 5382, 5383 and two advanced physics electives; CHEM 1303	38
Mechanical Engineering:	ME 1202, 1102, 1305, 2310, 2331, 2131, 2340, 2140, 2342, 2142, 3332, 3132, 3340, 3370, 4338, 4360, 4160, 4370, 4380, 4381 and 5322	50
Leadership Elective:	Select one from EMIS 3308, EMIS 3309, ENCE 3302 or CSE 4360	3
Wellness I and II:		2
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Minimum total hours required		129
Any deviation from the ME and/or PHYS curricula requires approval of a		

petition submitted by the student to the appropriate faculty prior to the beginning of the term during which the student expects to complete the requirements for graduation.

The Courses (PHYS)

1105. General Physics Laboratory. One three-hour laboratory period per week. Taken with PHYS 1303, 1304 if eight hours of credit, including laboratory, are needed.

1106. General Physics Laboratory. One three-hour laboratory period per week. Taken with PHYS 1307, 1308 if eight hours of credit, including laboratory, are needed. *Prerequisite:* PHYS 1105.

1301. The Ideas of Modern Physics. Presents cosmology, relativity, quantum mechanics and particle physics in an essentially descriptive, nonmathematical framework accessible to all SMU students.

1303. Introductory Mechanics. For science and engineering majors. Vectors kinematics, Newtonian mechanics, gravitation, rotational motion, vibrations, waves and fluids. *Prerequisite:* MATH 1337 or high school calculus course recommended.

1304. Introductory Electricity and Magnetism. For science and engineering majors. Electricity, magnetism, electromagnetic radiation, optics, special relativity. *Prerequisite:* PHYS 1303. MATH 1338 recommended.

1307, 1308. General Physics. Principles and concepts of physics; applications in the life sciences. Mechanics, thermodynamics, sound, optics, electricity, magnetism, modern physics. *Prerequisite:* MATH 1337.

1311. Elements of Astronomy. A course in planetary and stellar astronomy including laboratory and observations.

1313. Fundamentals of Physics. Contemporary concepts of physics including Newtonian mechanics, gravitation, rotational motion, fluids, the gas laws, vibrations and waves, sound. Intended for the nonscience major. No prior knowledge of physics is assumed.

1314. The Physical Perspective. Principles and concepts of physics including electricity, magnetism, the nature of light, Einstein's theory of relativity, quantum theory, atomic physics and the Big Bang. Intended for the nonscience major. No prior knowledge of physics is assumed.

1320. Musical Acoustics. Covers both the acoustics (physical sound properties) and the psycho-acoustics (psychological, perceptual properties) of music. Topics include sound in general, sound of musical instruments (including voice), sound characteristics of rooms, electronic production (synthesis), and reproduction of sound. No prior knowledge of physics is assumed.

1403. General Physics. Equivalent of PHYS 1303 and 1105.

1404. General Physics. Equivalent of PHYS 1304 and 1106.

1407. General Physics. Equivalent of PHYS 1307 and 1105. *Prerequisite:* MATH 1337

1408. General Physics. Equivalent of PHYS 1308 and 1106. *Prerequisite:* MATH 1337.

3305. Introduction to Modern Physics. For science and engineering majors. Special relativity. Elements of quantum physics. Structure of atoms, molecules and solids. Nuclear physics. Elementary particles. *Prerequisite:* PHYS 1304.

3310. Introduction to Relativity and the Physics of Waves. One-dimensional harmonic oscillator, coupled oscillators, longitudinal and transverse waves, sound and electromagnetic waves, interference and diffraction, Lorentz transforms and invariants,

time dilation, length contraction, equivalence principle and black holes. *Prerequisites:* PHYS 3305 (can be taken concurrently), MATH 2339, MATH 2343 (can be taken concurrently).

3320. Physics of Music. Covers the acoustics (physical sound properties) of music. Topics include sound in general, sound of musical instruments, acoustics, electronic synthesis, Fourier transforms, interference, diffraction, resonance. *Prerequisites:* PHYS 1303 and 1304 or equivalent. PHYS 3344 recommended. A basic knowledge of music is helpful.

3333. The Scientific Method. (Debunking Pseudoscience) Provides students with an understanding of the scientific method sufficient to detect pseudoscience in its many guises: paranormal phenomena; free-energy devices; alternative medicine; creationism; and many others. *Prerequisite:* None.

3344. Classical Mechanics. The motion of a particle and of systems of particles, including oscillatory systems, accelerated coordinate systems, central-force motion, rigid-body dynamics, gravitation and Lagrangian mechanics. *Prerequisite:* PHYS 1303 and MATH 2339 (or taken concurrently).

3345. Advanced Mechanics. Topics in classical mechanics including the motion of a system of particles, the two-body central-force problem, small oscillations of coupled systems, collision theory, Lagrange's and Hamilton's formulations, the vibrating string and the special theory of relativity. *Prerequisite:* PHYS 1303.

3368. Principles of Astrophysics and Cosmology. Cosmic distance scales. Physics of stars. Expansion of the Universe. Cosmic nucleosynthesis. Selected other topics as appropriate. *Prerequisite:* PHYS 3305.

3374. Thermodynamics and Statistical Mechanics. Basic concepts of thermodynamics and statistical mechanics with emphasis on quantum statistics. The laws of thermodynamics, entropy, Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics. *Prerequisites:* PHYS 3305. MATH 2343 recommended.

4112. Laboratory Physics II. Intermediate level experimental physics. Approximately one experiment per week. One three-hour laboratory period per week. *Prerequisite:* PHYS 1106, 3305.

4190, 4290, 4390. Special Projects in Physics. Directed study of special topics. For physics majors only. *Prerequisites:* Junior or senior classification and permission of department.

4211. Laboratory Physics I. Introduction to experimental physics. Approximately one experiment per week. One two-hour laboratory period per week. *Prerequisites:* PHYS 1105, 1106, 3305.

4321. Methods of Theoretical Physics. Matrices, determinants, linear algebra, complex variables, inhomogeneous equations, Sturm-Liouville theory, partial differential equations, special functions, Fourier series and integral transforms, integral equations, calculus of variations, applications. *Prerequisites:* MATH 2339, 2343.

4375. Research. For physics majors. Students will participate in physics research with a member of the faculty of the Department of Physics. *Prerequisite:* Permission of instructor.

4392. Introduction to Electromagnetic Theory. A development of electromagnetic theory from the experimental laws; Maxwell's equations for the electromagnetic field. Electrostatics, magnetostatics, steady currents, boundary-value problems, time-varying electric and magnetic fields.

For Undergraduate and Graduate Students

5337. Introduction to Solid State Physics. Crystal lattices and the reciprocal lattice. The free-electron model of metals. Crystal binding. Lattice vibrations phonons. Thermal properties of solids. Energy bands in solids.

5380. Concepts of Experimental Particle Physics. Principles of elementary particle physics and the experiments by which we learn laws obeyed by these particles, with reading of scientific papers. *Prerequisite:* PHYS 3305 or equivalent; PHYS 5382 recommended.

5382. Introduction to Quantum Mechanics. A study of the development of quantum theory including blackbody radiation, the Bohr atom, and the photoelectric effect. Wave-mechanics and matrix-mechanics approaches will be studied, as well as a brief introduction to the Dirac formalism. Solutions to the Schrödinger equation for a variety of one-dimensional problems and for the hydrogen atom are discussed. *Prerequisite:* PHYS 3305 and MATH 3353.

5383. Advanced Quantum Mechanics. Applications and approximation methods in quantum mechanics. Applications to laser physics, solid-state physics, molecular physics and scattering are included. *Prerequisite:* PHYS 5382.

5393. Electromagnetic Waves and Optics. Theory and applications of electromagnetic wave radiation, propagation and scattering. Geometrical and physical optics. Guided waves. Lasers, coherent optics, interferometry and holography. *Prerequisite:* PHYS 4392 or equivalent, or permission of instructor.

5395. Introduction to Elementary Particles. Modern theories of elementary particles including relativistic kinematics, Feynman diagrams, quantum electrodynamics, quarks, weak interactions and gauge theories. *Prerequisite:* PHYS 5383.

POLITICAL SCIENCE

www.smu.edu/politicalscience/

Professor Dennis Ippolito, **Department Chair**

Professors: James Hollifield, Calvin Jillson, Harold Stanley, Stephen Wegren; **Associate Professors:** Bradley Carter, Joseph Kobylka, Michael Lusztig, Luigi Manzetti, Dennis Simon, Matthew Wilson; **Assistant Professors:** Valerie Hunt, Taka Sakamoto, Wendy Watson; **Professor Emeritus:** James Gerhardt.

For Undergraduate Students

The department offers undergraduate courses of three types. Introductory courses (at the 1000 level) survey each of the broad fields of study in the discipline. Advanced courses (at the 3000 and 4000 levels) explore more closely defined topics within each of those fields — 3000-level courses examine relatively broad subjects; 4000-level courses examine more specific topics, but are not inherently more demanding than 3000-level courses. Introductory-level preparation or at least sophomore standing is recommended for students undertaking these advanced courses.

Independent study courses (at the 4000 level) are offered to majors with sophomore or higher standing; prerequisites for these courses are stated in the course descriptions that follow. For purposes of distribution and concentration, courses are grouped in their broad fields in the listings below, as indicated by the last two digits of their course numbers:

American Government and Politics	20-39
Comparative Politics	40-59

Political Theory	60-79
International Relations	80-99

Requirements for the B.A. degree. The B.A. degree in political science requires a total of 33 term hours with two introductory courses (six hours) of choice and 27 advanced hours (3000 and above). Advanced course work must include at least six hours (two courses) in each of two distribution fields, and three hours (one course) in a third.

Minors in Political Science. Four minor concentrations are offered, a general program in Political Science and three specifically focused programs in Political Thought, Comparative and International Politics, and American Politics. Each concentration requires 18 term hours of political science courses, including three or six hours (one or two courses) at the introductory level and 12 or 15 advanced hours.

Departmental Distinction. The department offers graduation with distinction to select majors of high academic achievement. Interested students may consult with an appropriate faculty member and apply to the Director of Undergraduate Studies for admission to the distinction track. Eligible students must have completed two introductory departmental courses and completed 24 hours of departmental credit before applying for candidacy.

Criteria for graduating with Departmental Distinction include the following:

1. A minimum 3.00 overall G.P.A. at graduation.
2. A minimum 3.50 average in courses taken for the Political Science major.
3. Preparation for a departmental distinction thesis under the supervision of a faculty thesis adviser. The faculty adviser's grade for the thesis must be A- or higher. This work will be accomplished by taking PLSC 4307 and will be in addition to all other requirements for the major.
4. Passing "with distinction" an oral examination of at least one hour, conducted by a faculty distinction examination committee, which reviews the candidate thesis and major curriculum.
5. A minimum 3.50 average in at least two advanced courses related to the topic of the thesis; one of these may, but need not, be a course taken outside the requirements of the Political Science major.

Students advanced to the distinction track must write a substantial piece of independent and original research (PLSC 4307) and present it to a distinction committee composed of faculty selected by the distinction adviser in consultation with the student. Upon positive recommendation of this committee, the department will award the student graduation with distinction.

Eligible students will be admitted to the distinction track upon recommendation of the Director of Undergraduate Studies in consultation with the faculty member who has agreed to chair the distinction committee and oversee the student's research and writing. The department does not require candidates for distinction to take Research Design and Data Analysis (PLSC 4376), but strongly advises students interested in empirical research to do so.

Notes of Importance. Students must receive at least a C- in all classes

counting toward the major or minor.

No course may be counted more than once toward meeting departmental major or minor requirements. In unusual circumstances, a student may petition, through his or her adviser, to the department chair for exceptions to the above requirements. Only the department chair may grant such a written waiver.

The Courses (PLSC)

American Government and Politics

1320. Introduction to American Government and Politics. The organization, functions and processes of our national government, with particular attention to parties, pressure groups, and other forces that influence its course. Attention will also be given to the Texas Constitution.

3320. Principles of Public Policy. Public policy is the study of the outcome of the political process. Parties, pressure groups, bureaucracies and legislative bodies create the decisions that govern domestic social policy, international economic policy and defense policy. *Prerequisites:* ECO 1311 and PLSC 1320. *Recommended:* ECO 1312 and either PLSC 1340 or PLSC 1380.

3321. Congress and the Legislative Process. The powers, organization and rules and procedures of legislatures in the United States. Emphasizes the U.S. Congress: its constitutional responsibilities, committee and staff systems, and legislative procedures in the House and Senate.

3322. The American Presidency. An evaluation of the office of president in the American political system with emphasis placed upon the functional and institutional development of the office and presidential leadership in policy making.

3323. Southern Politics. Focuses on the South, paying particular attention to partisan competition, the politics of race, redistricting, and voting rights in the 11 Southern states.

3326. State Government and Politics. A comparative study of the structure, procedure and functional services of state, county and municipal governments with emphasis upon intergovernmental relations in the federal government and Texas government.

3327. Texas Politics. This course focuses on government and politics in Texas both by exploring its processes, institutions and policies, and by placing them within the broader context of the U.S. federal system.

3329. Bureaucracy and Regulatory Politics. Examines the “fourth branch” of government, including the rise of regulatory policymaking in the twentieth century, its instructions and organization, the role of administrative law, the behavior of civil servants and interest groups, and the relationship between bureaucracies and other branches of government.

3330. Law, Politics and the Supreme Court. An introduction to the uniquely political and legal role played by the Supreme Court in elaborating the scope of governmental power and defining individual rights and liberties.

3331. Media and Politics. Examines how the media influence the American institutional governing process and citizen engagement in democratic practices such as acquisition of political knowledge and political decision-making.

3333 (PP 3310). Environmental Policy. Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

3334. Public Opinion and American Politics. Focuses upon the influence of public opinion on American politics and policy making. Topics for the course will include public opinion and democratic theory, the methods of survey research, the use of the polling “industry,” and the influence of polls on politicians and policy.

3335. Judicial Process. Examines the role played by courts in the American system of government. Ranges from the generation of disputes, to the tools used by the judiciary to

resolve them, to the ways judges are selected and make decisions, and to the impact of those decisions on society and government.

3336. Congress, the President and the Constitution. An examination of how constitutional interpretation, precedent and politics affect presidential and congressional powers and the separation of powers with respect to war and foreign affairs; legislation and administration; and budgetary and fiscal policies.

4320. Special Studies in American Government and Politics.

4321. Basic Issues in American Democracy. An analysis of current American public policy issues within a theoretical framework. Examines the foundations of concepts and value orientations within which policy considerations are made.

4322 (CFA 3326). Latino Politics. An analysis of contexts, causes and consequences of Latino political participation. The focus is on Latinos in the Southwest with some attention to other racial and ethnic groups elsewhere in the U.S.

4323 (CFA 3334). The Politics of Change in America, 1930-2000. Focuses on American politics and society from 1930 to the present. Examines how America has changed, explains why changes occur, and assesses the consequences of these changes.

4324. Political Dynamics. Use of political parties in formulating political opinions; pressure groups; propaganda; measurement of mass opinions; political leadership.

4325. Practical Electoral Politics. An exploration of techniques of political organization drawing on studies of recent campaigns and examining the political pressures that affect policy making in government.

4326. Presidential Elections. An examination of presidential nominations and elections. Topics include voter decision making, media coverage, campaign finance, delegate selection rules, the electoral college and kindred concerns.

4327. Urban Politics. Traces ideas and beliefs about the nature and purpose of local political arenas in the American experience from New England townships to modern metropolises.

4328. Seminar: American Government and Politics. An overview of the central questions in the study of American government and politics.

4329. The Politics of Economic Policy. Analysis of interactions among political beliefs, economic theories, political processes and public policies that shape and change the American political economy.

4330. Politics and Film. This course will use films as a vehicle for understanding politics, leadership and the political process in the United States. The class involves substantial reading and writing by students.

4331. Government and Business. Analysis of the roles of business in American policies and the impacts of political and governmental decisions on business activity.

4332. Politics of Litigation. An examination of the interaction between law and politics and, in particular, of the role interest groups have played in the litigation process.

4333. Policy, Politics and the Budget. Examines the federal budget's historical evolution and contemporary significance. The constitutional division of the power of the purse between the legislative and executive branches; presidential-congressional conflicts over control of budget policy; major policy issues relating to the size of the federal budget; spending and tax policy priorities; and deficit and debt problems.

4335. Constitutional Law. Examines the scope of constitutional power in the American governmental system, questions of separation of powers between the branches of the national government, and the federal relationship between the national government and state governments.

4336. Civil Liberties: First Amendment and Privacy. Examines the place and treatment of expression, religion and personal autonomy in the American Constitution and in the cases in which the Supreme Court has defined and applied the Constitution.

4337. Civil Rights. Examines changes wrought in the American system of governance by the addition of the Fourteenth Amendment, particularly its Equal Protection Clause, and the ways the Supreme Court has interpreted and applied it over time. Topics include racial discrimination, sex discrimination and equality in the political process.

4338. Criminal Process Rights. Examines the application of the principles of “ordered liberty” and the Bill of Rights to criminal process disputes. Its concerns extend through initial police investigation, trial preparation, trial and jury concerns, and the post-trial determination of punishment.

4339. Women and the Law. The status of women in the American legal system, including an assessment of women defined as a legal category and the impact of increasing numbers of women lawyers, judges and criminals.

Comparative Politics

1340. Introduction to Comparative Politics. Analyzes and contrasts different patterns of national political development in Western, Marxist-Leninist and Third World countries. Examines political dilemmas confronting each type of system.

3340. Western European Politics. The political development of Britain, France, Germany and Italy. Topics include: the emergence of parliament and parties; democratic breakdown and the rise of fascism; modern parties and interest groups; state economic planning; corporatism; extraparliamentary oppositions.

3341. Politics of Participation and Representation in Western Democracies. Focuses on the numerous avenues through which citizens influence politics and policy making in advanced industrial democracies. Considers the implications of formal institutional structures, such as electoral and party systems, the impact of organized groups, as well as more informal forms of participation, such as protest movements and citizen initiatives.

3342 (CF 3388). Making Democracy Work. Aims to answer the fundamental question of why democracy thrives in some nations while in others it struggles, and in many more it has not yet taken root.

3345. Governments and Politics of the Middle East. A survey of modern Middle East governments and politics; historical, ideological and economic and social influences on their domestic and foreign policies; analysis of emerging political forms; some emphasis on modernization problems.

3346. Governments and Politics of Japan. A study of political institutions, foreign policies and international relations, and the economic and social problems of Japan.

3347. Governments and Politics of Africa. The politics of Black Africa in an international context, emphasizing the problems of race, nationalism and economic development.

3348. Governments and Politics of Latin America. The structure, functions and operations of governments in Latin American countries with emphasis on political practices and institutions.

3349. Politics of Major Latin American Countries. An introduction to the problems of political development in some of the major countries of Latin America: Argentina, Brazil, Chile and Mexico.

3352. Chinese Politics. Chinese contributions to Marxist-Leninist theory; analysis of Chinese institutions and policy making, with emphasis on recent political developments.

3355. The Political Economy of the Welfare State. Focuses on the origins, evolution and management of industrial democracy in Europe and America. Emphasizes the interconnections between political and economic challenges inherent in policy making, and the economic implications of public policy.

3358. Government and Politics of Russia. Examines attempts to reform the former Soviet Union since 1985. Analyzes, in particular, the social and political processes behind the demise of the Soviet system. Emphasis is placed on sources for support of, as well as

obstacles to, political, economic and social reform in post-communist Russia.

3359 (CFA 3359). From Communism to Democracy. The rise and fall of communist regimes and the transition to democracy in Eastern Europe and the former Soviet Union, emphasizing social, economic and political influences affecting divergent paths to democracy.

4340. Special Studies in Comparative Government and Politics.

4341 (CFA 3304). Comparative Rights and Representation. Examines the tension that exists between rights and democratic representation. Explores judicial social-policy making, individual versus collective rights, aboriginal rights and affirmative action.

4342. Why Nations Revolt. Provides an introduction to revolutions by surveying the major theories that have been developed to explain the occurrence of revolutions. Various revolutions will be examined as case studies, including the French, Russian, Nazi and Chinese revolutions. In addition, at least one peasant revolution in the Third World will be covered.

4348. Seminar: Comparative Government and Politics. An overview of the central questions in the study of comparative government and politics.

4353. Governments and Politics of East Asia. Analysis of various aspects of social change and modernization and their effects on mass and elite political behavior and political processes in selected countries of East Asia.

4354. The Third World and North-South Relations. An inquiry into problems and theories of political economy of development and dependency in the Third World countries.

4355 (CFA 3355). Comparative Political Economy of Industrialized Democracies. Examines the nature and workings of the political economies of industrialized democracies of North America, Europe and the Pacific in comparative perspective. *Recommended:* Prior completion of one introductory political science and/or economics course.

4356. Latin American Political Economy. Focuses on the challenges facing public policy in the Latin American region and how to interpret that region's politics and economic frustrations. Attentive to the basic rules of the Latin American political game and the lack of agreement on them.

4358. Soviet Politics: Revolution to Revolution. A survey of Soviet political history from 1917-1991. Special attention is devoted to the way in which each Soviet leader attempted to change the political and economic system.

Political Theory

1360. Introduction to Political Theory. An introduction to political theory through an examination of classical and modern approaches to the study of politics. Addresses questions concerning how we get knowledge about politics and what we do with that knowledge.

3360. Foundations of Political Thought. Main currents of political thought in their historical settings from Plato to the 17th century, with a critical evaluation of those elements of continuing worth.

3361. Modern Political Thought. Main currents of political thought in their historical setting from the 17th century to the present.

3362. Twentieth-Century Political Thought. Analysis of the political implications of selected responses to the problems of modern mass society.

3363. American Political Thought. A historical and analytical survey of the thinkers, actors and main currents of American political thought from the founding of the first European colonies to the present day.

3365. Communism and Post-Communism. Theoretical foundations of communism and its variant forms in practice, explanations for the collapse of Eastern European com-

munist systems, and possible futures of communism.

3370. Women and Politics. An analysis and critique of women's role in politics, theories on women's status and power, political activities, ideologies, and programs of feminists, past and present.

4360. Special Studies in Political Theory.

4361. Political Regimes: Understandings of Rome. Focuses on the various understandings of "Rome" as developed in the writings of Plutarch, St. Augustine and Machiavelli. Addresses three fundamentally different conceptions of the regime — beginning with the Roman Empire, considering the effects of the Christian Order, and addressing the new modes and orders introduced by Machiavelli.

4362. Medieval Political Philosophy. Introduces students to the tradition of political philosophy represented by various thinkers of the medieval period. Through an analysis of Islamic, Jewish and Christian authors, students attempt to come to an understanding of the fundamental issues at stake in their works. The course also examines closely the alternative solutions proposed for solving what has been termed the "theological-political problem."

4363. Religion and Politics. Analysis of the relationship between religious faith and civil government in the Western tradition. Focuses on thinkers and controversies from the late Roman empire to the contemporary United States.

4368. Seminar: Political Theory and Philosophy. An overview of the central questions in the study of political theory and philosophy.

4369. Republicanism and the Good Society. Our understanding of liberal democracies owes a great deal to republican thought. This course seeks to examine the intellectual history of republicanism, its uneasy alliance with liberalism, and its various contemporary manifestations — particularly in the United States and Canada.

4371. Jurisprudence. An introduction to alternative ways of viewing the sources, functions and uses of law. Attention is given to various understandings of concepts of justice and rights.

4376. Research Design and Data Analysis in Political Science. Focuses on the "art" and "science" of designing and conducting empirical research in political science. The topics covered include research design, measurement, data analysis and hypothesis testing.

International Relations

1380. Introduction to International Relations. A basic survey of the elements of international relations, including the nation-state system, international organizations, international law, diplomacy, foreign policy and various nonstate actors such as multinational corporations.

3351. Russia Under Putin. A study of contemporary Russia. The goal is to prepare a multi-faceted assessment of the superpower that is and was Russia. How will it develop, politically, economically and militarily? The course is part of the SMU-in-Copenhagen program.

3381 (CFA 3381). Current Issues in International Politics. An interdisciplinary survey of contemporary issues and challenges in the international arena. The student will research and propose solutions taking into account the multi-dimensional aspects of these international challenges.

3382. International Organizations: Global and Regional. A study of the United Nations and other international agencies in their attempts to deal with the great international political problems of our times.

3383. The American Foreign Policy Process. A survey of the contemporary content and the conduct of American foreign policy.

3387 (CF 3303). Political Geography. An examination of topics in international po-

litical rivalries within the nation-state system. Major emphasis will be given to the adaptations within that system since 1850 for spatial distributions of physical terrain, populations, economic resources and activities, and political and social divisions.

3389 (CF 3389). International Political Economy. Introduces students to the study of international political economy. The expansion of trade and foreign direct investment, and the increase in international migration, are indicators of a new interdependence and globalization. How do nation-states respond to globalization and manage international economic relations?

3390. Negotiating International Trade. Examines the means by which countries negotiate international trade. In part, the course is theoretical, examining standard theories of trade. In part it is empirical, with hemispheric trade as the substantive focus. Finally, in part the course is practical. Students are engaged in a computer-based simulation exercise with students from other universities.

4380. Special Studies in International Relations.

4381. National Security Policy. The historical background and development of national security policy in the United States. Emphasizes war powers and defense policy; the constitutional framework, precedents, and presidential-congressional authority; and Cold War and post-Cold War national security strategies and defense policy issues.

4382. The Politics of Military Force. An examination of uses of U.S. military force as a political instrument and an attempt to judge its effectiveness as a tool of American foreign policy since the end of the Second World War.

4384. American-Russian Relationship: Soviet and Russian Foreign Policy. Surveys American-Russian relations since 1945. Examines the relationship during the Cold War, with emphasis on how and why the Cold War began and then investigates the reasons for the end of the Cold War. Explores the nature of the relationship in the post-Cold War era, with emphasis on common interests and issues that divide the two nations. Incorporates a negotiation simulation exercise between American and Russian negotiating teams.

4385. Inter-American Relations. A survey of the diplomatic and commercial relations between the United States and the republics of the Western hemisphere with particular attention to involvement in the Caribbean area.

4386. Issues of U.S.-East Asia Relations. Analysis of politics of trade imbalance, regional collective security, technology transfer and other problems of bilateral and multilateral relations between the United States and East Asian countries.

4388. Seminar: International Government and Politics. An overview of the central questions in the study of international government and politics.

4391. NAFTA and Free Trade in the Americas. Exploration of the domestic politics of the three NAFTA countries leading to the North American Free Trade Agreement, the effects of the agreement, and possibilities for expanding free trade in the Americas.

4398. Nuclear Weapons and World Politics. Focuses on the nuclear rivalry between the U.S. and the USSR, and on how this rivalry has transformed the nature and conduct of world politics. Emphasis is placed on theoretical and analytical perspectives, including deterrence theory, bargaining and game theory. Attention is also given to the implications stemming from both the vertical and horizontal proliferation of nuclear weapons.

Special Undergraduate Offerings

Opportunities for independent study and research are available to majors in political science. Students must have departmental approval prior to registering for these courses. Prerequisites are stated for each independent study course below. Such courses may not be counted toward departmental distribution requirements, and no more than two such courses may be counted toward overall

major or minor requirements.

4102, 4202, 4302. Directed Readings. Students develop and execute independent reading or research projects under the guidance of a departmental faculty member, culminating in a written report. *Prerequisites:* Written approval of the instructor and the department chair or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

4301, 4401, 4402, 4403, 4404. Washington Term. Intensive study of national political institutions. Includes a four-hour research project (4401), a four-hour internship (4402), and an eight-hour seminar (4403 and 4404). *Prerequisites:* Two courses in political science, at least one at the upper level, that are relevant to the selected program. Available for Political Science, Public Policy or International Studies majors or minors.

4304. Departmental Seminar: Scope and Methods of Political Science. An overview of the enterprise of political science. It canvasses the areas of interest to the discipline, the questions political scientists pursue, and the ways scholars have addressed these questions.

4306. Internship in Political Science. Undergraduate students who arrange for part- or full-time jobs in government, political parties, interest groups or other organizations relate these experiences to their academic curriculum through research and writing, under the guidance of a departmental faculty member. *Prerequisites:* Written approval of the instructor and the department chair or a designate, at least sophomore standing, and appropriate introductory and advanced preparation.

4307. Departmental Distinction Thesis. Candidates for departmental distinction write a thesis under the direction of a departmental faculty member, culminating in an oral examination over the field of the thesis. *Prerequisite:* Admission to departmental honors candidacy.

4343. Nationalities and Minorities in Europe. A study of minority issues in Europe. The Balkans, the Baltics, the Basques: what is the fighting for? In modern Europe, minority issues are constantly debated and acted upon, both by majorities and minorities. The course is part of the SMU-in-Copenhagen program.

4363. Religion and Politics in the Western Tradition (CFA 3363). Analysis of the relationship between religious faith and civil government in the Western tradition. Focuses on thinkers and controversies from the late Roman empire to the contemporary United States.

5341. European Politics: The European Union. Europe is in a period of transformation, emerging as a major player on the world scene, while internally developing a novel balance between unification of countries and the rise of local identities. What are the forces that shape the new Europe? How does European policy materialize and who makes the decisions? The course is part of the SMU-in-Copenhagen program.

5383. Seminar on Regional Conflicts. A study of the problems of European security, with a particular emphasis on the issues confronting populations and policy makers after the Cold War, on the search for a new European security order, and on the emergence of new threats to security. The course is part of the SMU-in-Copenhagen program.

PSYCHOLOGY

www.smu.edu/psychology/

Professor Ernie Jouriles, Department Chair

Professor: Alan Brown; **Associate Professors:** Robert Hampson, Renee McDonald, Thomas Ritz; **Assistant Professors:** Georita Frierson, Katherine Presnell, Alicia Meuret, Lorelei Simpson, Jasper Smits; **Lecturers:** Laura Adams, Michael Crow, Susan Hornstein, Chris Logan, Elaine Ply, Stuart Robinson.

Requirements for the Bachelor of Arts Degree in Psychology

The following 9 hours must be completed with a combined average of 2.0 or better prior to declaring the major:

PSYC 1300 Introduction to Psychology

PSYC 3382 Experimental Psychology

STAT 2331 Introduction to Statistical Methods or STAT 2301 Statistics for Modern Business Decisions

Five courses chosen from the following (15 hours):

PSYC 3332 Developmental Psychology

PSYC 3341 Social Psychology

PSYC 3380 Health Psychology

PSYC 3383 Sensation and Perception

PSYC 5354 Personality

PSYC 5355 Abnormal Psychology

PSYC 5384 Psychology of Learning

PSYC 5385 Physiological Psychology

PSYC 5388 Memory and Cognition

PSYC 5390 History of Psychology

Twelve additional hours at the 3000 level or above.

Total number of hours: 36

Practicum, individual research, and independent study courses (4161, 4172, 4261, 4272, 4361, 4372, 5100, 5200 and 5300) may be taken only on a pass-fail basis. Such courses will not count toward the major.

Requirements for the Minor in Psychology

PSYC 1300 (Introduction to Psychology) must be successfully completed before declaring a Psychology minor. The minor requires three PSYC courses chosen from the following: 3332 (Developmental Psychology), 3341 (Social Psychology); 3380 (Health Psychology), 3382 (Experimental Psychology), 3383 (Sensation and Perception), 5354 (Personality), 5355 (Abnormal Psychology), 5384 (Psychology of Learning), 5385 (Physiological Psychology), 5388 (Memory and Cognition) and 5390 (History of Psychology).

The student must also complete two elective courses in Psychology (six hours) at the 3000 level or higher, excluding Independent Research, Human Relations Seminar, and Practicum.

The Courses (PSYC)

1300. Introduction to Psychology. Broad introduction to psychology as a behavioral science with special emphasis on cognition, development, learning, social, personality, physiological, and clinical psychology (psychopathology and psychotherapy).

3332. Developmental Psychology. A survey of the processes and variables that influence the development of the child, adolescent and young adult. Emphasis is on research in such areas as perceptual, cognitive, language and social/emotional development.

3341. Social Psychology. Effect of social conditions on individual behavior; includes topics such as attitude change, conformity, attraction, aggression and small-group behav-

ior.

3350. Psychology of Women. A study of the origin and development of supposed sex differences and their psychological consequences. Emphasis on which sex differences are supported by research and which are not. Also covers the social and personal conflicts encountered by women today, particularly in the business world.

3360. Forensic Psychology. Examination of the interface between psychology and the legal system, focusing in particular on the role of mental health experts in criminal trials and civil disputes. *Prerequisite:* PSYC 3382.

3380. Health Psychology. An overview of psychological factors affecting the body. Topics include emotion, stress, disease of the immune and cardiovascular systems, eating disorders and aging.

3382. Experimental Psychology. Design and evaluation of psychological research with emphasis on scientific method, data collection, experimentation, control procedures, validity, reliability and report-writing skills.

3383. Sensation and Perception. Characteristics of external stimuli, physiology of receptor mechanisms, and information processing. Emphasis on vision and hearing with some coverage of other sensory modalities.

4161, 4261, 4361. Individual Research in Psychology. Supervised individual empirical research and/or library research on selected problems. The proposed research must be submitted to and approved by the instructor before admission. Pass/fail only.

4172, 4272, 4372. Human Relations Seminar/Practicum. An intensive study of interpersonal helping relationships based upon psychological theories and research findings. Focuses on supervised personal involvement with others as a helper. Pass/fail only.

For Undergraduate and Graduate Students

5100, 5200, 5300. Advanced Individual Research in Psychology. Supervised individual empirical research and/or library research on selected problems. The proposed research must be submitted to and approved by the instructor before admission. Pass/fail only. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5333. Domestic Violence and Children. Overview of research and theory on domestic violence and its effects on children. Applied component involves working with children in a domestic violence shelter. *Prerequisites:* PSYC 1300, 3382 and STAT 2301, and permission of instructor.

5334. Psychological Disorders of Children. A study of the nature and causes of abnormal behavior in childhood. Includes theories, case studies and therapeutic approaches; emphasis is on understanding the relationship between normal and abnormal behavior. *Prerequisites:* Sophomore standing, six hours PSYC including 1300, 3332, 3382 and S T A T 2 3 3 1 o r S T A T 2 3 0 1 .

5336. Cognitive Development. A survey of the psychological literature concerned with the child's development of cognitive skills, structures and processes. *Prerequisites:* PSYC 1300, 3332, 3382 and STAT 2331 or STAT 2301.

5337. Social and Personality Development. An examination of theories of development of personality, with emphasis on those aspects that affect the individual's interaction in a social world. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5338. Psychology of the Family. An in-depth exploration of current research and theories dealing with psychodynamics of family life, developmental nature of the family, and family pathology. *Prerequisites:* Six term hours in psychology, including PSYC 1300, 3382 and STAT 2331 or 2301; or permission of instructor.

5341. Research Design in Psychology. Provides a background in the tactics of research design. Focuses on nonstatistical issues; unobtrusive measures, reactivity, causal relationships, experimental and quasi-experimental design, internal and external validity. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5343. Organizational Psychology. Psychological principles applied to organizations, both business and volunteer, emphasizing a systems approach and including selection and assignment of personnel, leadership, motivation, communication, groups, and an overview of organizational developments. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5351. Social Perception. Surveys social perception and cognition, including topics such as person perception, nonverbal communication, emotional expression, accuracy and stereotyping. Ecological, evolutionary and cognitive theoretical approaches to social knowledge acquisition are considered. *Prerequisites:* PSYC 1300, 3341, 3382 and STAT 2331 or 2301; or permission of instructor.

5354. Personality. An examination of theories that attempt to explain the underlying bases of personality and the causes of individual differences. Emphasis is placed on the normal personality, but the causes of abnormal personality development, as outlined by each theory, are discussed as well. *Prerequisites:* Sophomore standing and six hours of psychology, including PSYC 1300, 3382 and STAT 2331 or 2301.

5355. Abnormal Psychology. An examination of the causes, correlates, consequences and treatment of abnormal behavior and mental states. Emphasis placed on findings from empirical research. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5356. Introduction to Clinical Psychology. A survey of the important issues and subfields of clinical psychology from the viewpoint of the scientist-practitioner model. Research, assessment, diagnosis and theories in the area of psychotherapy are covered. Primarily designed for students contemplating graduate school in clinical psychology or related fields. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301; or permission of instructor.

5359. Death and Dying. An intensive study of topics related to mortality including sociocultural attitudes, funeral practices, loss and mourning, suicide, death across the lifespan, legal and ethical issues, and spiritual aspects of death. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5361, 5362, 5363. Special Topics in Psychology. Designed to cover topics that may have temporary or limited interest. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5371. Psychological Testing. Statistics and theories underlying the construction of psychological tests and inventories; emphasis upon concepts of reliability, validity, and other procedures for utilizing and evaluating psychological tests. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5382. Advanced Experimental Psychology. Topics include descriptive and inferential statistics, experimental design, correlational design and quasi-experimental design. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5383. Behavioral Medicine. Biopsychosocial bases of problems in physical health ranging from acute illness to chronic diseases and addictive disorders. Emphasis is on psychological assessment and treatment of these conditions. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301; or permission of instructor.

5384. Psychology of Learning. A survey of the general principles, concepts and current developments in the empirical analysis of learning. Topics include conditioning modes of addiction, learned helplessness and the contribution of evolution to the expression of behavior change. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5385. Physiological Psychology. A survey of the neural bases of behavior. Primary emphasis will be given to mammalian brain structure and function and their relationships to psychological and behavioral processes. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5386. Behavioral Action of Drugs. Principles of drugs and behavior. Classification and chemical effects of behaviorally active drugs. Influences of environmental, response and task variables, as well as evaluation and treatment of addiction. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5387. Psychology of Motivation. A study of current theories of motivation, with attention to the methods used in studying motivation and the effects of motivation on selected behaviors in human beings and animals. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5388. Memory and Cognition. A study of how information is encoded, stored and retrieved in adults. Topics may include attentional processes, verbal learning, memory, comprehension and problem solving. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5390. History of Psychology. A coverage of the most important movements and individuals contributing to the development of modern psychology. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

5392. Comparative Cognition. Comparative cognition studies the higher mental abilities (e.g., learning, remembering, problem solving, language) of humans and animals. These abilities are examined from cognitive, learning, developmental, and evolutionary viewpoints. *Prerequisites:* PSYC 1300, 3382 and STAT 2331 or 2301.

PUBLIC POLICY

www.smu.edu/dedman/majors/publicpolicy

Professor Dennis Ippolito (Political Science), **Director**

The Public Policy major is an interdisciplinary program in Economics and Political Science. The B.A. degree in Public Policy is designed to provide students with the analytical skills and historical context to understand and deal with contemporary policy issues. The major in Public Policy is useful as preparation for work in government and business and as preparation for post-graduate study in law, public policy and the social sciences.

Major Requirements. The B.A. degree in Public Policy requires a total of 33 hours. The degree consists of two components:

1. Eighteen (18) hours of core courses:

ECO 1311, 1312 and 3301.
PLSC 1320, and PLSC 1340 or 1380.
PLSC 3320.

2. At least 15 hours of advanced courses selected from the fields below, with no fewer than six hours in Economics (ECO) and six hours in Political Science (PLSC) or Public Policy (PP).

To meet the advanced course requirements, students must take at least six hours in each of any two of the fields of Political Economy, Law and Social Policy, and International Politics and Policy, as well as three hours from the quantitative methods field. Although not a requirement, students are advised to take at least one term of calculus (MATH 1309 or 1337) and one term of statistics (STAT 2301 or ITOM 2305).

Note of Importance. Students must receive at least a C- in all classes counting toward the major.

List of fields and acceptable courses (additional prerequisites not contained in the core are listed in parentheses):

Political Economy

ECO 4366 Economics of the Public Sector
ECO 4371 Theory of Industrial Structure
ECO 4382 Economics of Regulated Industries
ECO 4385 Macroeconomics: Theory and Policy (*Prerequisite:* ECO 3302)
ECO 5361 Natural Resources and Energy Economics (*Prerequisite:* ECO 3302)
ECO 5365 Public Finance
PLSC 3329 Bureaucracy and Regulatory Politics
PLSC 3355 The Political Economy of the Welfare State
PLSC 3389 International Political Economy
PLSC 3390 Negotiating International Trade
PLSC 4333 Policy, Politics and the Budget

Law and Social Policy

ECO 4351 Labor Economics
ECO 5337 Urban Economics
ECO 5353 Law and Economics
ECO 5357 Economics of Human Resources
PLSC 3321 Congress and the Legislative Process
PLSC 3330 Law, Politics and the Supreme Court
PLSC 3335 Judicial Process
PLSC 3370 Women and Politics
PLSC 4321 Basic Issues in American Democracy
PLSC 4337 Civil Rights
PLSC 4338 Criminal Process Rights
PLSC 4339 Women and the Law
PLSC 4341 Comparative Rights and Representation
PP 3310 Environmental Policy

International Politics and Policy

ECO 3321 International Economic Policy
ECO 4357 International Trade
ECO 4358 International Macroeconomic Theory and Policy (*Prerequisite:* ECO 3302)
ECO 5360 Economic Development (*Prerequisite:* ECO 3302)
PLSC 3340 Western European Politics
PLSC 3345 Governments and Politics of the Middle East
PLSC 3346 Government and Politics of Japan
PLSC 3348 Governments and Politics of Latin America
PLSC 3358 Government and Politics of Russia
PLSC 3383 The American Foreign Policy Process
PLSC 3389 International Political Economy
PLSC 4356 Latin American Political Economy
PLSC 4381 National Security Policy
PLSC 4384 The American-Russian Relationship
PLSC 4386 Issues of U.S.-East Asia Relations
PLSC 4391 NAFTA and Free Trade in the Americas

Quantitative Methods

ECO 5341 Strategic Behavior
ECO 5350 Introductory Econometrics (*Prerequisites:* STAT 2301 or 4340 or ITOM 2305, MATH 1309 or 1337)
ECO 5370 Cost-Benefit Analysis
ECO 5375 Economic and Business Forecasting (*Prerequisite:* STAT 2301 or ITOM 2305)

The Courses (PP)

3310. Environmental Policy. Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

RELIGIOUS STUDIES

www.smu.edu/dedman/religen.html

Professor Richard Cogley, **Department Chair**

Professors: Charles Curran, Robin Lovin; **Associate Professor:** William Barnard, Mark Chancey, Richard Cogley, Carl Johan Elverskog; John Lamoreaux, **Assistant Professors:** Jill DeTemple, Serge Frolov, Steven Lindquist.

Degree Program. 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, theology or other areas of the humanities.

Departmental courses are offered in four areas: *philosophical* studies of religious ideas and values, *historical* studies of religious movements and institutions, *scientific* studies of religious beliefs and behavior, and *textual* studies of religious traditions and scriptures. A well-balanced program of undergraduate study includes courses from each of these four areas. Students planning to undertake graduate studies are strongly encouraged to take the major “with departmental distinction” and to complete twelve term hours in either French or German.

Major Requirements. Thirty term hours in the department. Twenty-four must be completed in courses numbered above 3000 and must include RELI 3306 or 3307 and 3319 or 3326.

Departmental Distinction. A Religious Studies major with minimum overall G.P.A. of 3.00 and a 3.50 G.P.A. in the major by the middle of the junior year may apply for the degree “with departmental distinction.” Candidates for distinction must enroll in a Directed Research tutorial in the fall term of their senior year followed by an Independent Studies course in the spring term for which they will write a senior thesis. Only the Directed Research tutorial may be used to fulfill the 30-term-hour requirement for the major.

Minor Requirements. Students majoring in other departments or schools may obtain a minor in Religious Studies by completing 15 term hours in the department. Nine hours must be completed in courses numbered above 3000 and including one course chosen from RELI 3306, 3307, 3319 or 3326.

The Courses (RELI)

1301. Ways of Being Religious. A comparative study of the beliefs and practices of a wide variety of religious traditions. Special attention to such perennial themes as God, salvation, evil, morality and death.

1303. Introduction to Eastern Religions. An introductory historical overview of the major religious traditions of Asia. The course will explore developments in religious and cultural trends expressed in South Asia (Hinduism, Buddhism, Jainism and Sikhism) and in East Asia (Confucianism, Taoism and Shinto).

1304. Introduction to Western Religions. A historical introduction to Judaism, Christianity and Islam. Topics include Moses and ancient Israelite religion; Jesus and early Christianity; rabbinic Judaism; Muhammad and classical Islam; the birth of Protestantism; and Jewish, Christian and Islamic modernism.

1305. Introduction to Primal Religions. An introduction to the religious world views and ritual life of such primal cultures as Australian aboriginals, African tribal peoples and native North and South Americans, as well as the significance of the resurgence of neopaganism in the West.

1311. Judaism, Christianity and the Bible. An exploration of the common and distinctive elements in Judaism and Christianity; a study of the historical relationships between Jews and Christians.

3302 (PHIL 3302). Problems in the Philosophy of Religion . The philosophy of religion, considering such problems as religious experience, human freedom, good and evil, belief in God and immortality.

3304. Introduction to Christian Theology. An exploration of such theological problems as the authority of the Bible, the reality of God, the meaning of Christ, the nature of humanity, and the end of history in the light of the biblical heritage and contemporary thought.

3305 (CF 3331). Religion as Story. An interpretation of stories as modes of religious discernment as well as means of religious communication, with special attention to selected narrative forms such as myth, fairy tale, novel and autobiography.

3306. Introduction to the Hindu Tradition. An exploration of the major attitudes and institutions that define the Hindu tradition, with attention to ideology, social organization, and ritual in light of both historical development and contemporary practice.

3307. Introduction to Buddhism. Communal rituals, practice, ethics, and political involvement of the Buddhist community (*sangha*) as it has taken form in five cultural areas: India, South Asia, Tibet, East Asia, and America.

3308. Christian Ethics and Moral Issues. An examination of the relationship between moral reasoning and Christian belief. An analysis of various Roman Catholic and Protestant theories of religious ethics and of specific questions of personal conduct and social policy.

3309 (CF 3361). Bioethics from a Christian Perspective. This course will examine bioethics from a Christian ethical perspective with special attention to different methodological approaches to the significant themes and realities involved (e.g., life, health, suffering, death), and to the most important issues faced today.

3310 (SOCL 3320). The Social-Scientific Study of Religion. An introduction to scientific ways of thinking about the social, cultural and psychological aspects of religious life. Attention is given to major thinkers and theories dealing with religion in the disciplines of anthropology, psychology, sociology and the social-scientific study of religion.

3314. Studies in Comparative Religion. An examination of a particular topic or theme as expressed in a variety of religious traditions, Eastern and Western, ancient and modern. Topics will vary from term to term.

3315. Religion in Politics. An examination of the impact of religious belief and ethical thought, as well as social, cultural and psychological factors, on the involvement of religious people in the political sphere. The course introduces the social-scientific study of religion to aid in the analysis of current and recent case studies, ranging from the conservatism of the "Far Right" to the revolution of the "Left," and involving Christian, Jewish, Muslim, Hindu and Buddhist traditions.

3316 (CFA 3306). Religion and Science. An exploration of how religion and science understand such topics as the origins and destiny of the universe and the evolution of life.

3317 (CF 3357). Human Meaning and Value in Personal Life. An exploration of the two positive marks of a productive life – love and work – and the two threats to an abundant life – suffering and death.

3318 (CF 3316). The Hero in the Bible and the Ancient Near East. An examination of concepts of the hero in the literatures of ancient Mesopotamia, Canaan and

Israel, with special attention to the nature of traditional narrative and to the relationship between the hero, society and the self.

3319. Introduction to the Hebrew Bible. An introduction to the Old Testament and to the religion and history of ancient Israel. Special emphasis will be given to the ancient Near Eastern roots of biblical religion and to the modern interpretation of biblical myth, epic and prophecy.

3320. Introduction to Classical Judaism. An introduction to the study of religion through examination of Judaism. The course will look at central Jewish religious ideas and how they developed within the rabbinic and medieval periods. Special attention will be given to conflicts and controversies, such as Judaism's rejection of early Christianity; heretical movements within medieval Judaism; and Jewish attitudes toward other religions.

3321 (CF 3332). Religion and the Holocaust. A study of responses to the Holocaust by Jews and Christians. The course will begin with an overview of the history of the Holocaust as it affected the Jewish communities of Central and Eastern Europe. Students will then read personal memoirs of survivors of ghettos, concentration camps and Nazi Germany. Post-war responses will include questions of faith after the Holocaust; Christian responsibility for modern anti-Semitism; the impact of the Holocaust on the creation of the State of Israel and Middle East politics today; and post-war relations between Jews and Germans.

3324. The Jewish Experience in America. An examination of Jewish life in America, including history, literature, cultural expressions and religious beliefs from the seventeenth century to the present.

3326. Introduction to the New Testament. An introduction to the writings of the New Testament, the formative events, and the persons who played leading roles in the origin of Christianity.

3329. Introduction to Islam. An examination of the history, doctrines and rituals of the Muslim community, treating Islam in both the past and the present, and in its global context.

3330. The History of Christianity. An introduction to the European development of Christianity, focusing on the key movements, the outstanding leaders, and crucial turning points in the history of Christianity.

3331. Renewal of Roman Catholicism at the Second Vatican Council. The main section of the course will concentrate on a study of the more significant documents of the Second Vatican Council (1962-1965). An introductory part will consider the background prior to the Second Vatican Council and the changes that helped bring it about. A concluding part will deal with the more significant developments in Roman Catholicism in the last 30 years.

3333. Religion in America. A consideration of the history of religion in America from the colonial period to the present. Special emphasis on either selected religious groups, movements or thinkers.

3334. Conservatism and Liberalism in American Christianity. An examination of the fundamentalist, evangelical and liberal understandings of Christianity, with attention to the issues at stake, and the problems and possibilities of dialogue.

3335. Religious Sects and Cults in America. An examination of new religious movements that have originated in America (such as Mormonism, Seventh-Day Adventism, Scientology, Christian Science and the Nation of Islam) or have been transplanted here from abroad (e.g., Hasidic Judaism, Theosophy, the Unification Church, the Hare Krishna movement, and Baha'i).

3336. African-American Religious History. An examination of the major movements, figures, and critical issues in African-American religious history. The focus is on the United States, although West African, Caribbean and South American materials are included. Special attention is given to slave religion, the civil rights movement, and Black criticism of Christianity.

3337 (CF 3356). Christianity and American Public Life. Course objectives are: 1) to acquaint students with some recent criticisms of the dangers of individualism permeating American understanding and life; 2) to propose the communitarian dimensions of human existence from the Christian perspective; and 3) to help students enter more critically into the dialogue about the role of religion in pluralistic contemporary American society.

3338 (CFA 3338). Christ as Cultural Hero. An exploration of the impact of Jesus on the history of Western culture, not only in religion and philosophy, but also in the fine arts, literature and politics.

3339 (CFA 3339). The Puritan Tradition in England and America. An examination of the religious, political, scientific, economic, and literary dimensions of the Puritan movement in Tudor-Stuart England and in colonial America.

3340. Religious Experience. An examination of the varieties of religious experience from traditional forms of mystical and ecstatic experience, to nontraditional forms of altered states of consciousness. Attention is given to social, cultural, ethical, psychological and existential dimensions of religious experience approached from a cross-cultural perspective.

3349. Early Christianity. Major developments in the history of Christianity from 100-600. Emphasis is placed on institutional and ideological developments.

3350. History of Biblical Interpretation. A survey of the interpretive approaches to the Bible in Jewish and Christian traditions from ancient times to the modern era. Topics will include interpretation in the biblical period, rabbinic and early Christian exegesis, mystical interpretation, and modern historical scholarship. The social context and the aims of interpretation will be key concerns of the course.

3352 (CF 3346). Love and Death in Ancient Mythology. An exploration of love and death in the mythologies of Mesopotamia, Egypt, Canaan, Greece and India. The interaction of these twin themes will be pursued as a key to the religious and philosophical perspectives of these ancient peoples. The significance of ancient mythology for modern reflection will be a central concern throughout the course.

3353 (CFB 3353). Borderlands: Latino/Latina Religions in the United States. An introduction to Latino/Latina religions and religious practices in the United States, with a special emphasis on social constructions of the "borderland."

3358 (CFA 3322). The Psychology of Religion. An investigation of the biological and psychological underpinnings of religious belief, behavior and experience, as well as the psychological and biological consequences of religion.

3360. The History of Judaism. An overview of both the historical development of the Jewish tradition and its central laws, religious practices and theology.

3364. Native American Religions. An investigation of the mythologies of North America, centering on Southwestern and Northern Plains cultures. Native texts will be approached by way of modern theories of the interpretation of myth, ritual and religion. Topics include creation myths, culture heroes, trickster tales, sacred music and dance, and rites of healing and passage.

3365 (CF 3339). Understanding the Self: East and West. An examination of several basic notions pertaining to selfhood, including consciousness, cognition, motivation, personal identity and decision, as found in Eastern and Western sources.

3366 (ANTH 3366). Magic, Myth and Religion Across Cultures. A cross-cultural and comparative exploration of religion, ritual, magic and supernatural belief systems among peoples of the world. Examines how religion permeates other aspects of society and culture.

3367. The Religious Life of China and Japan. An introduction to the history, thought and religious practices of Taoism, Confucianism, Shinto and Mahayana Buddhism.

3368 (CF 3368). Wholeness and Holiness: Religion and Healing Across Cultures. An exploration of various understandings of the relationship between religion and

healing. Analysis of the interface between medical and religious models of health through a wide range of ethnographic examples and theoretical perspectives. Special attention is also given to different religious healing modalities.

3370. Great Religious Leaders. A comparative study of the life and thought of outstanding representatives of diverse religious traditions, with special attention to founders and revitalizers of the world religions.

3371 (CFA 3307). Religion and Culture in the Greco-Roman World. Investigates the intersections of political history, social history, philosophical thought, and religious belief and practice, with particular attention to Judaism and Christianity in their Greco-Roman context.

3372. Biblical Interpretation and the State of Israel. An examination of the ways in which the Bible has been interpreted both in support of and in opposition to the modern state of Israel.

3374. Female and Male in Religion and Culture. How does the study of gender differences affect our understanding of history, religion and culture? This course will take a critical look at current discussions in the field of women's studies and their impact on contemporary thought.

3375 (CF 3343). Wives, Mothers, Lovers, Queens: Expressions of the Feminine Divine in World Religions and Cultures. A historical and cross-cultural overview of the relationship between feminine and religious cultural expressions through comparative examinations and analyses of various goddess figures in world religions.

3376 (CF 3344). Constructions of Gender, Sexuality and the Family in South Asian Religions. A comprehensive historical overview of gender issues as they are represented in the great textual traditions of South Asia. To make these classical texts more relevant, readings in recent anthropological studies of religion will also be included to enable the student to trace recurring gender themes, images and symbols.

3377 (CF 3399). The Cultural History of Tibet. A critical study of Tibetan history, culture and religion and how they relate to the representation of Tibet in travel, scholarly and popular literature.

3378. Religions of China. A historical survey of the religious cultures of China from the ancient Shang dynasty through the contemporary period.

3380. Women and Religion in America. A historical introduction to the role of women in American religious history with special attention to the interplay between women and wider religious and cultural values.

3382. Mysticism, East and West. An inquiry into mysticism as a path for attaining individual religious fulfillment. Attention to such mystic traditions as Zen, Tantra, Yoga, Sufism, Kabbalah and Christian mysticism.

3385. Philosophies of India. An examination of some of the major traditions of Indian systematic philosophy. Attention to the analysis of consciousness, perception, language and the problems of validation.

4198, 4199. Independent Study.

4298, 4299. Independent Study.

4352. Jesus and the Gospels. An examination of canonical and non-canonical Christian Gospels, with special attention to methods of gospel research and to the study of the historical Jesus.

4354. The Prophets of the Old Testament. An introduction to the writings and religious concepts of the prophets of ancient Israel. Special emphasis will be given to the roots of prophecy in ancient Near Eastern religions, the social role of the Israelite prophet, and comparisons with seers and shamans of modern religious traditions.

4356. The Bible and Ethics. An examination of the ways in which Christians have appealed to scripture in ethical debates, with special attention to classic ethical ap-

proaches, specific ethical issues, and methodological problems.

4371. Pauline Christianity. A study of Paul and Pauline Christianity, drawing on Paul's letters, the Acts of the Apostles, and other documents of the New Testament.

4381. Internship in Religious Studies. Enables students to gain vocational experience by working in nonsectarian religious organizations and institutions, such as social justice agencies, ecumenical associations, and charitable or educational foundations.

4198, 4199, 4298, 4299, 4398, 4399, 4498, 4499. Independent Study.

4388, 4389. Special Topics in Religious Studies. A detailed investigation of a topic chosen by the instructor. Topics vary.

4396, 4397. Directed Reading and Research. Special topics to be selected by the student in consultation with the department. Open to seniors upon departmental approval.

4398, 4399. Independent Study.

SOCIOLOGY

www.smu.edu/sociology

Professor Linda Brewster Stearns, **Chair**

Professor: Anthony Cortese; **Associate Professor** Richard Hawkins; **Assistant Professors:** Dalia Abdel-Hady, Francisco J. Granados, Anne E. Lincoln, Sheri Locklear Kunovich; **Lecturers:** Michael Cruz, Syeda Jesmin, Adrian Tan; **Adjunct Lecturer:** Karen de Olivares.

The sociology curriculum includes courses on research design, data analysis, social theory and conceptualization of domestic and international organizational and social problems. In today's information society, these skills give sociology majors a competitive advantage in the fields of social research, criminology, demography, public administration, policy analysis, gerontology, education, social work and market research.

Sociology majors entering the business world often work in marketing research, human resources, management, industrial relations, public relations or sales. Sociology majors entering human services often work with youths at risk, the elderly or people experiencing problems related to poverty, or substance abuse. Sociology majors entering the government sector often work in policy analysis, program evaluation or urban planning.

Requirements for the B.A. Degree. This major requires a minimum of 33 term hours, 18 of which must be at the advanced level. The four required courses include either SOCI 2300 or 2310, 3311, 3312 and either SOCI 4313 or 4314. Of the remaining 21 credit hours, six hours must be at the 4000 level. Students should take either SOCI 2300 or 2310 and either SOCI 3311 or 3312 before taking a 4000-level course. STAT 1301 or 2331 can be counted as one of the eleven courses needed for the sociology major. Twelve term hours of foreign language are recommended.

Requirements for the B.S. Degree. The B.S. degree is a more specialized program than the B.A. It provides a sound foundation for graduate study in sociology or law. The major requires 36 term hours, 18 of which must be at the advanced level. The five required courses include either SOCI 2300 or 2310, 3311, 3312, 4313 and 4314. Of the remaining 21 credit hours, nine hours must be at the 4000 level. Students should take either SOCI 2300 or 2310 and either 3311 or 3312 before taking a 4000-level course. STAT 1301 or 2331

may be counted as one of the courses within the sociology major. Twelve term hours of foreign language are recommended.

The Department Distinction Program. Students wishing to work for distinction in sociology should consult the Director of Undergraduate Studies as soon as possible in the junior year. Students will be expected to engage in original research (based on a topic covered in a 3000 or 4000-level course) and write a journal-length article under the supervision of a faculty member while enrolled in SOCI 4396. At the end of the semester, the supervising faculty will make a recommendation to departmental faculty regarding distinction. The department committee will then evaluate the merits of the paper and determine if distinction will be awarded. Either a B.A. or B.S. student can attempt distinction in Sociology.

Requirements for Minor in Sociology. Students majoring in other departments may obtain a minor in sociology by completing either SOCI 2300 or 2310, one of the following: SOCI 3311, 3312, 4313 or 4314, one additional course at the 4000 level, and two courses at the 3000 level or above for a total of 15 hours.

The Courses (SOCI)

2300. Social Problems. Selected problems of modern urban life analyzed with an emphasis on American values, the nature of community, and the manifest and latent functions of proposed solutions to social problems.

2310. Introduction to Sociology. The perspective and basic content of sociology, emphasizing the ways in which values and other beliefs influence social behavior.

2377. Markets and Culture. A general introduction to economic sociology, illustrating how the basic economic categories of labor, commodities, money, markets and the economy are affected by social relations.

3301 (ANTH 3301, CFA 3301). Health, Healing and Ethics. An examination of beliefs about health and disease in a world context. Texts plus a case history approach are used to examine medical beliefs, concepts of health, mind and body, together with ecological and ethical issues relating to our changing populations.

3305 (CFA 3310, ETST 2301). Race and Ethnicity in the United States. An interdisciplinary seminar designed to introduce students to the analysis of race and ethnicity in the United States within a global context.

3311. Qualitative Research Methods. Course provides an overview of commonly used methodologies in sociology, with a focus on qualitative methods. Topics include the relationship between theory and qualitative methods, an inductive versus deductive approach, data collection, data analysis and presentation of findings. *Prerequisite:* Either S O C I 2 3 0 0 o r 2 3 1 0 .

3312. Survey Research Methods and Data Analysis. Course provides an overview of social survey design and collection of quantitative survey data. Topics include questionnaire design, field implementation, statistical analysis of data, and presentation of findings. Lab sessions will investigate sociological data sets. *Prerequisite:* Either SOCI 2300 or 2310.

3320 (RELI 3310). The Social-Scientific Study of Religion. An introduction to scientific ways of thinking about the social, cultural and psychological aspects of religious life. Attentive to major thinkers and theories dealing with religion in the disciplines of anthropology, psychology, sociology, and the social-scientific study of religion.

3330. Person vs. Society. Social-psychological examination of causes and consequences of conformity and loss of individuality; emphasis on strategies for countering

pressures to conform and for achieving personal autonomy.

3340. Global Society. Provides students with a sociological orientation to the contemporary world viewed as an evolving network of nation-states. Focusing on the global interdependence of countries, the position of societies in the world system will be related to their internal patterns of social stratification.

3345. Media Ethics and Gender. Provides a broad historical and contemporary background to the study of media, ethics, and gender images — both in the U.S. and abroad.

3351. Marriage and Family. Husband-wife and parent-child relations in the United States; traditions and alternatives.

3355. Family Conflict. Domestic violence, conflict over child custody in divorce, incest and child abuse, neglect and failure to support are topics in the changing family in America. Intergenerational issues and problems are also discussed.

3360. Law and Society. Designed to give students a broad overview of the history and functions of our major legal institutions and their relationship to American culture and social structure.

3363. Crime and Delinquency. Extent of the problem, causal theories, prevention and public policy.

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

3370. Minority-Dominant Relations. The nature, origins, and consequences of relationships between unequal groups; U.S. and other societies compared.

3371. Sociology of Gender. Roles of men and women in American Society; analysis of the acquisition, content and consequences of sex roles; social movements and implications for social change.

3372. Chicanos in the Southwest. Contemporary Chicano life and culture in the Southwest; effects of racism and rapid urbanization.

3377. Organizations and Their Environments. Explores the theories and relationships between organizations and environment. Applies these theories to the analysis of real world organization activities. *Prerequisite:* SOCI 2377.

3383 (CF 3385). Race, Culture and Social Policy in the Southwest. This interdisciplinary seminar introduces students to conceptualizing social problems. Focus is on the distinctive conditions defined and treated as social problems in the American Southwest.

4193, 4293, 4393. Individual Research. *Prerequisites:* Either SOCI 2300 or SOCI 2310 and either SOCI 3311 or 3312, and one 3000-level course.

4313. The Sociological Tradition. Introduction to ideas and theories of 19th- and early 20th- century sociologists. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4314. Contemporary Sociological Theory. Recent trends in sociological theory and research. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4321. Immigration and Population Issues. Causes and consequences of population growth and change in the United States and the world. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4335. Social Movements and Collective Behavior. Nature, causes and consequences of crowds, riots, fads, public opinion, social movements and revolution. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4340. Sociology of Culture. This course provides an overview of the sociological study of culture and focuses on the ways language, artifacts, ideas, identities and narratives construct social reality. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI

3311 or 3312.

4353. Political Sociology. Political movements, the impact of politics on other institutions in America, and issues of power and control are discussed. Global issues of economics and political power are included. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4360 Gangs in the United States: Developing Historical, Social and Theoretical Understandings of a Modern Problem. An examination of the history, development and structures of gangs in the U.S., which incorporates explanatory theories, policy and models for prevention, intervention and suppression of gang activity. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4363. The Administration of Justice. Law enforcement and criminal court systems; the ideal of justice and public policy. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4364. Correctional Systems. The history of punishment, adjustment to incarceration, and comparison of prisons for men and women. Constitutional issues of criminal punishment are discussed. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4366. Deviant Behavior. Causes and consequences of deviant behavior; evaluation of leading theories. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4372. Wealth and Consumption. This course focuses on how group membership (e.g. race, social class) and societal forces (e.g. economic development) affect spending and savings patterns with particular attention paid to sociological theories of consumption. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4373. Class, Race and Gender Inequalities. Unequal distribution of power, prestige and opportunity within society; causes and consequences. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4374. Social Change. Review of major social change theories emphasizing: technology, modernization, social power, impact of change on individuals and institutions; possible solutions to resulting problems. Seminar format. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

4377. Contemporary Markets and Culture. Provides an opportunity to apply knowledge acquired in core Markets and Culture classes to real world contexts. *Prerequisites:* SOCI 2377 and 3377.

4379. Markets and Culture Internship. Provides students the opportunity to do field work on the research and analysis of social institutions and problems. Student will intern for an agency, organization or business, and complete a research project. *Prerequisites:* SOCI 2377 and 3377, and permission of program director.

4396. Individual Research for Distinction. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312, and one 3000-level course, and permission of director of undergraduate studies.

4398. Sociological Internship. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312, and permission of director of undergraduate studies.

4399. Special Topics: Sociology Seminar. *Prerequisites:* Either SOCI 2300 or 2310, and either SOCI 3311 or 3312.

STATISTICAL SCIENCE

www.smu.edu/statistics

Professor Wayne Woodward, **Department Chair**

Professors: Ronald Butler, Richard Gunst, William Schucany, Lynne Stokes; **Associate Professor:** Ian Harris; **Assistant Professors:** Jing Cao, Monnie McGee, Hon Keung Ng, Sherry Wang; **Emeritus Professors:** Narayan Bhat, Henry Gray, Chandrakant Kapadia, Campbell Read.

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

Requirements for the B.S. Degree. The **Bachelor of Science 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 Bachelor of Science in Statistical Sciences
(42 hours)**

MATH 1337, 1338, 2339

STAT 4340 or 5340, 5371, 5372, 4399

Electives – 21 hours selected from the following, including at least 9 advanced hours in STAT

STAT 1301 or 2301 or 2331 or ITOM 2305 (no more than one), **3312, 3370, 3380, 4385, 5377**

MATH 2343, 3353 (highly recommended) or other advanced courses

EMIS 3360, 5361, 5369

ECON 5350, 5375, 5385

Requirements for the Minor. A minor in statistical science is a valuable complement to majors in the natural or social sciences, engineering, or business. Students planning careers that involve the collection, processing, description and/or the analysis of quantitative information will enhance their career opportunities with a minor in statistical science. A minor in statistical science requires at least 15 term hours, as specified below.

STAT 1301, 2301 or 2331 or ITOM 2305 (no more than 3 hours).

STAT 3312, 3370, 3380, 4385, 5377; PSYC 3382 (at least 6 hours)

STAT 5371, 5372 (6 hours)

The Courses (STAT)

1301. 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.

2301. Statistics for Modern Business Decisions. A foundation in data analysis and probability models is followed by elementary applications of confidence intervals, hypothesis testing, correlation and regression. *Prerequisite:* CEE Math Fundamentals or equivalent.

2331. Introduction to Statistical Methods. An introduction to statistics for behavioral, biological and social scientists. Topics include descriptive statistics, probability and inferential statistics including hypothesis testing, and contingency tables.

3312. Categorical Data Analysis. Examines techniques for analyzing data that are

described by categories or classes. Discusses classical chi-square tests and modern log-linear models. Emphasizes practical applications using computer calculations and graphics. *Prerequisite:* STAT 2301 or 2331, or equivalent.

3370. Survey Sampling. Principles of Planning and Conducting Surveys. Simple random sampling; stratified, systematic, subsampling; means, variances, confidence limits; finite population correction; sampling from binomial populations; margin of error and sample-size determination. *Prerequisite:* STAT 2301 or 2331, or equivalent.

3380. Environmental Statistics. Examines statistical design and analysis methods relevant to environmental sampling, monitoring and impact assessment. Emphasizes statistical procedures that accommodate the likely temporal and spatial correlation in environmental data. *Prerequisite:* STAT 2301 or 2331, or equivalent.

4340 (EMIS 4340). Statistical Methods for Engineers and Applied Scientists. Basic concepts of probability and statistics useful in the solution of engineering and applied science problems. Topics: probability, probability distributions, data analysis, sampling distributions, estimation and simple tests of hypothesis. *Prerequisites:* MATH 1337 and 1338.

4385. Introduction to Nonparametric Statistics. Statistical methods that do not require explicit distributional assumptions such as normality. Analyses based on ranks. One- and multi-sample procedures. Tests of randomness and independence. *Prerequisite:* STAT 2301 or 2331, or equivalent.

4399. Statistical Science in Practice. Practical experience on projects dealing with the collection, analysis and interpretation of data. Three to four major projects, one of the student's design. Case studies from a variety of disciplines. *Prerequisite:* Statistical Science major or minor with senior class standing.

For Undergraduate and Graduate Students

These courses do not carry graduate credit for students in the M.S. program or in the Ph.D. program in statistical science.

5340 (EMIS 5370). Probability and Statistics for Scientists and Engineers. Introduction to fundamentals of probability and distribution theory, statistical techniques used by engineers and physical scientists. Examples of tests of significance, operating characteristic curve, tests of hypothesis about one and two parameters, estimation, analysis of variance, and the choice of a particular experimental procedure and sample size. *Prerequisites:* MATH 1337, 1338 and 2339, or equivalent.

5344 (EMIS 5364). Statistical Quality Control. Statistics and simple probability are introduced in terms of problems that arise in manufacturing; their application to control of manufacturing processes. Acceptance sampling in terms of standard sampling plans: MIL-STD 105, MIL-STD 414, Dodge-Romig plans, continuous sampling plans, etc. *Prerequisite:* STAT (EMIS) 4340 or STAT 5340 (EMIS 5370).

5371. Experimental Statistics I. A non-calculus development of the fundamental procedures of applied experimental statistics, including tests of hypotheses and interval estimation for the normal, binomial, chi-square and other distributions, and nonparametric tests. *Prerequisite:* Junior standing or permission of instructor.

5372. Experimental Statistics II. Analysis of variance, completely randomized design, randomized complete block designs-nested classifications, factorials; analysis of covariance, simple and multiple linear regressions, and correlation. *Prerequisite:* STAT 5371.

5377. Statistical Design and Analysis of Experiments. Introduction to statistical principles in the design and analysis of industrial experiments. Completely randomized, randomized complete and incomplete block, Latin square, and Plackett-Burman screening designs. Complete and fractional factorial experiments. Descriptive and inferential statistics. Analysis of variance models. Mean comparisons. *Prerequisite:* STAT 4340 or 5371, or permission of instructor.

WOMEN'S STUDIES PROGRAM

Professor Carolyn Sargent, Director

Lecturer: Josephine Caldwell-Ryan.

Women's Studies is an interdisciplinary academic field that explores historical and contemporary achievements of women, including their intellectual, artistic, political and social contributions. Women's studies core and departmentally-based courses introduce students to the dynamic and rapidly increasing scholarship on gender, the status of women, and the interrelations of women and men. Through participation in Women's Studies courses, SMU students, both male and female, are exposed to new ways of thinking about life choices and occupational opportunities and are better prepared for future challenges.

A minor in Women's Studies effectively complements a variety of majors and minors. The minor requires a minimum of 15 term hours, including WS 2322 (or an approved substitute) and 12 additional hours of courses approved for the program. At least nine hours must be advanced.

The Courses (WS)

philosophy and political discourses from the Classical era to today.

2308. Revisions: Woman as Thinker, Artist and Citizen. Designed to discover how an emphasis on the particular experiences of women can enhance and complicate traditionally conceived areas of scholarship and critical endeavor. Also explores areas of women's experience traditionally undervalued, such as friendship, sexuality, motherhood and old age.

2309. Lesbian and Gay Literature and Film: Minority Discourse and Social Power. The exploration, through literature and film, of the struggles by gay men and lesbians to create social identities and achieve human rights. Study of key cultures and pivotal historical periods in the West from ancient Greece to contemporary America.

2315. Gender, Culture and Society. An interdisciplinary study of gender ideology stressing anthropological and literary perspectives, this course analyzes gender difference as a structuring principle in all societies and explores some of its representations in literature, film and contemporary discourse.

2322. Women: Images and Perspectives. An examination of the constant and changing understanding of women reflected in myths, research, and theories of biology, history, religion, the social sciences, literature and language.

2380. Human Sexuality. This course explores the biosocial aspects of human sexuality and sex behaviors. A multidisciplinary and cross-cultural perspective will be used to address a wide range of theoretical and pragmatic sexual issues.

3347 (FL 3363). Figuring The Feminine. This course introduces students to a large body of French literary texts (in translation) by and about women, which bear witness to women's struggle for civil, social and political adulthood. They span the period from the 14th century to the present.

3370 (ENGL 3364). Women in the Southwest. A study and exploration of women writers, artists and thinkers in the American Southwest and their vision of this region as

singularly hospitable to women's culture.

3381 (ARHS 4371). Modern Myth-Making. The quest for enduring cultural heroes and the projection of changing social messages as reflected in art from past epochs to modern times.

3382. Women's Body Politics. A cross-cultural, interdisciplinary exploration of the cultural and ideological work that women's bodies perform as reflected in literature, art, medicine, **4209. Independent Studies.** A supervised practicum and/or directed readings on specific problems or themes under faculty guidance. Approval of Coordinator is required.

4303. Women Studies Internship. Offers students experience with organizations serving women or addressing women's and gender issues, as well as with varied potential careers or volunteer opportunities in the community.

4309. Independent Studies. A supervised practicum and/or directed readings on special problems or themes formulated by the student with faculty guidance and the approval of the director of Women's Studies.

6300 (TC 8375). Advanced Feminist Theory. Explores feminist theories that seek to explain women's subordination historically and cross-culturally, examines gender as a principle of social organization, and addresses the linkages among gender, ethnicity and class from the vantage of multiple disciplines.

ANTH 3310 Gender and Sex Roles: A Global Perspective

ANTH 3336 Gender and Globalization: Cultural and Ethical Issues

ARHS 3358/6389 Women in the Visual Arts: Both Sides of the Easel

ARHS 3357 Women Artists

ARHS 4371 (WS 3381) Modern Myth-Making

ARHS 6385 Women in Renaissance Art

CCJN 4360 Women and Minorities in Mass Media

CTV 2332 American Popular Film

CTV 2362 Diversity and American Film

CTV 3302 Images of Women in Television (subject to approval)

CTV 3310 Screen Artists (subject to approval)

CTV 3360 Gender and Representation in World Cinema

CTV 4350 Gender Issues in Communication

ECO 4351 Labor Economics

ECO 5357 Economics of Human Resources

ENGL 1360 The American Heroine: Fiction and Fact

ENGL 3344 Victorian Gender

ENGL 3367 Ethical Implications of Children's Literature

ENGL 3371 (HIST 3357) Joan of Arc: Her Story in History, Literature and Film

ENGL 3377 Literature and the Construction of Homosexuality

ENGL 3373 (FL 3359) Masculinities: Images and Perspectives

ENGL 3364 (WS 3370) Women and the Southwest

ENGL 3379 Literary and Cultural Contexts of Disability: Gender, Care and Justice

ENGL 3361, 4363, 6391, 6392, 6393, 6394, 6395 Seminars (subject to approval)

FL 3312 Women in Modern China

FL 3359 (ENGL 3359) Masculinities: Literary Images and Perspectives

FL 3363 (WS 3347) Figuring the Feminine

HIST 1322-001H Seminar in European History: Renaissance Queens and Mistresses

HIST 3301 Human Rights: America's Dilemma

HIST 3310 Problems in American History: Women's Movements/Gender Systems

(S u b j e c t

to Approval)

- HIST 3312** Women in American History
- HIST 3317** Women in Latin American Societies
- HIST 3329** Women in Early Modern Europe
- HIST 3330** Women in Modern European History
- HIST 3348** American Families: Changing Experiences and Expectations
- HIST 3355** Class and Gender in Ancient Society
- HIST 3357 (ENGL 3371)** Joan of Arc: Her story, in History, Literature and Film
- HIST 3394** The New Woman: The Emergence of Modern Womanhood in the U.S.,
1 8 9 0 t o 1 9 3 0
- HIST 3398** Women in Chinese History
- HR 8331** Women in World Religions (instructor approval)
- HR 7327** Women in the History of Christianity (instructor approval)
- HX 8329** Mary and Christian Tradition (instructor approval)
- MDVL 3352** Ideals and Ideals of Gender in the Middle Ages
- MUHI 3341** Women and Music “Like a Virgin”: From Hildegard to Madonna
- MUHI 4341** Women Composers and Performers in the 19th and 20th Centuries (majors
o n l y)
- PHIL 3305** Philosophy and Gender
- PLSC 3370** Women and Politics
- PLSC 4339** Women and the Law
- PSYC 3350** Psychology of Women
- RELI 3375** Wives, Mothers, Lovers, Queens: Expressions of the Feminine Divine in
World Religions and Cultures
- RELI 3376** Constructions of Gender, Sexuality and the Family in South Asian Religions
- SOCI 3351** Marriage and the Family
- SOCI 3371** Sociology of Gender
- ST 8375** Feminist and Womanist Theologies (instructor approval)
- THEA 4383** Gender and Performance
- WS 2308** Revisions: Woman as Thinker, Artist and Citizen
- WS 2309** Lesbian and Gay Literature and Film: Minority Discourse and Social Power
- WS 2322** Women: Images and Perspectives
- WS 2380** Human Sexuality
- WS 2315** Gender, Culture and Society
- WS 3347 (FL 3363)** Figuring the Feminine
- WS 3370 (ENGL 3370)** Women and the Southwest
- WS 3381 (ARHS 5381)** Modern Myth-Making
- WS 3382** Women’s Body Politics
- WO 8308** Women and Worship (instructor approval)