NOTICE OF NONDISCRIMINATION

Southern Methodist University will not discriminate in any employment practice, education program or educational activity on the basis of race, color, religion, national origin, sex, age, disability or veteran status. SMU’s commitment to equal opportunity includes nondiscrimination on the basis of sexual orientation. The director of Institutional Access and Equity has been designated to handle inquiries regarding the nondiscrimination policies.
Southern Methodist University publishes a complete bulletin every two years. The undergraduate catalog and the Cox, Dedman Law, Hart eCenter and Simmons graduate catalogs are updated annually. The Dedman College, Lyle, Meadows and Perkins graduate catalogs are updated biennially. The following catalogs constitute the General Bulletin of the University:

- Undergraduate Catalog
- Dedman School of Law Graduate Catalog
- Perkins School of Theology Graduate Catalog
- Dedman College of Humanities and Sciences Graduate Catalog
- Cox School of Business Graduate Catalog
- Meadows School of the Arts Graduate Catalog
- Simmons School of Education and Human Development Graduate Catalog
- Lyle School of Engineering Graduate Catalog
- Hart eCenter Graduate Catalog

In addition, certain academic programs provide their own schedules:

- Continuing Education
- J Term
- SMU Abroad

- SMU-in-Plano
- SMU-in-Taos (Fort Burgwin)
- Summer Studies

Every effort has been made to include in this catalog information that, at the time of preparation for printing, most accurately represents Southern Methodist University. The provisions of the publication are not, however, to be regarded as an irrevocable contract between the student and Southern Methodist University. The University reserves the right to change, at any time and without prior notice, any provision or requirement, including, but not limited to, policies, procedures, charges, financial aid programs, refund policies and academic programs.

Catalog addenda are published online at smu.edu/catalogs. An addendum includes graduation, degree and transfer requirements that do not appear in a specific print or online catalog but apply in that academic year.

Additional information can be obtained by writing to the Undergraduate Office of Admission or to the appropriate school (listed above) at the following address:

Southern Methodist University
Dallas TX 75275

Information also is available at www.smu.edu.

Produced by the Office of the Provost
Southern Methodist University
Dallas TX 75275-0221
2011
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ACADEMIC YEAR 2011–2012

This calendar includes an addendum listing religious holidays for use in requesting excused absences according to University Policy 1.9. For religious holidays not listed, contact the Office of the Chaplain.

Graduate programs in the Cox School of Business, Perkins School of Theology and Dedman School of Law, and the Department of Dispute Resolution and Counseling within the Simmons School of Education and Human Development have different calendars.


Fall Term 2011

**April 4–22, Monday–Friday:** Enrollment for fall 2011 continuing students for all undergraduates and for graduates in Dedman College and Meadows.

**May, July, August – TBA:** Academic Advising, Enrollment and Orientation (AARO) conferences for new first-year and transfer undergraduate students. Conference dates to be announced. For more information, students should contact New Student Programs, Student Life Office, 214-768-4560; www.smu.edu/newstudent.

**August 20, Saturday:** Residence halls officially open.

**August 21, Sunday:** Opening Convocation, McFarlin Auditorium.

**August 22, Monday:** First day of classes.

**August 26, Friday:** Last day to enroll, add courses or drop courses without grade record or tuition billing. Last day to file for graduation in December.

**September 5, Monday:** University holiday – Labor Day.

**September 7, Wednesday:** Last day to declare pass/fail, no credit or first-year repeated course grading options. Last day to request an excused absence for the observance of a religious holiday.

**September 16–17, Friday–Saturday:** Family Weekend.

**September 26, Monday:** Early intervention grades due at 11:59 p.m.

**October 5, Wednesday:** Last day for continuing undergraduate students to change their majors before November enrollment.

**October 10–11, Monday–Tuesday:** Fall break.

**October 21, Friday:** Midterm grades due at 11:59 p.m.

**October 31, Monday:** 60% point of the term that federal financial aid has been earned if a student officially withdraws from SMU; prior to this date a partial calculated return to federal programs will be required.

**October 31–November 18, Monday–Friday:** Enrollment for spring 2012 continuing students for all undergraduates and for graduates in Dedman College and Meadows.

**November 4, Friday:** Last day to drop a course.

**November 4–5, Friday–Saturday:** Homecoming.

**November 10, Thursday:** Last day for December graduation candidates to change grades of Incomplete.

**November 18, Friday:** Students should file for May graduation. The last day to file is January 23, 2012.

**November 22, Tuesday:** Last day to withdraw from the University.

**November 23, Wednesday:** “No class” day.

**November 24–25, Thursday–Friday:** University holiday – Thanksgiving.
November 30–December 4, Wednesday–Sunday: No final examinations or unscheduled tests and papers.

December 2, Friday: Last day for oral/written examinations for December graduate degree candidates.

December 5, Monday: Last day of instruction.

December 6, Tuesday: Reading Day.

December 7–14, Wednesday–Wednesday: Examinations (No examinations scheduled for Saturday and Sunday).

December 15, Thursday: Residence halls officially close.

December 17, Saturday: Official close of term and date for conferral of degrees. Graduation ceremony for December graduates.

December 25, Sunday: University holiday – Christmas/Winter break.

January Interterm 2012

January 2, Monday: University holiday – New Year’s Day.

NOTE: Some areas of instruction offer selected courses during the January interterm, December 19–January 13.

J Term in Plano

January 3, Tuesday: First day of classes.

January 4, Wednesday: Last day to declare pass/fail.

January 11, Wednesday: Last day to drop/withdraw from the University.

January 12, Thursday: Last class, including exam.

Spring Term 2012

October 31–January 23, Monday–Monday: Enrollment for spring 2011 continuing students for all undergraduates and graduates in Dedman College and Meadows.

January 10, Tuesday: Residence halls officially open.

January – TBA: Academic Advising, Enrollment and Orientation (AARO) conferences for new first-year and transfer undergraduate students. Conference dates to be announced. For more information, students should contact New Student Programs, Student Life Office, 214-768-4560; www.smu.edu/newstudent.

January 2, Monday: University holiday – New Year’s Day.

January 16, Monday: University holiday – Birthday of Martin Luther King, Jr.

January 17, Tuesday: First day of classes.

January 23, Monday: Last day to enroll, add courses or drop courses without grade record or tuition billing. Last day to file for May graduation.

February 1, Wednesday: Last day to declare pass/fail, no credit or first-year repeated course grading options. Also, last day to request an excused absence for the observance of a religious holiday.

February 20, Monday: Early intervention grades due at 11:59 p.m.

March 10–18, Saturday–Sunday: Spring break.

March 21, Wednesday: Midterm grades due at 11:59 p.m.

March 29, Thursday: 60% point of the term that federal financial aid has been earned if a student officially withdraws from SMU; prior to this date a partial calculated return to federal programs will be required.

April 2, Monday: Last day for continuing undergraduate students to change their majors before April enrollment.

April 2–20, Monday–Friday: Enrollment for summer 2012 and fall 2012 continuing students for all undergraduates and for graduates in Dedman College and Meadows.

April 4, Wednesday: Last day to drop a course.

April 6, Friday: University holiday – Good Friday.
April 8, Sunday: Easter Sunday.
April 9, Monday: Last Day for May graduation candidates to change grades of Incomplete.
April 16, Monday: Honors Day, 5:30 p.m.
April 17, Tuesday: Students should file for August or December graduation. Last day to file for August graduation is June 5. Last day to file for December graduation is the last day to enroll for fall 2012.
April 23, Monday: Last day to withdraw from the University.
April 26–May 1, Thursday–Tuesday: No final examinations or unscheduled tests and papers.
April 27, Friday: Last day for oral/written examinations for graduate students who are May degree candidates.
May 1, Tuesday: Last day of instruction. Follows a Friday schedule.
May 2–8, Wednesday–Tuesday: Examinations (No examinations scheduled for Sunday).
May 9, Wednesday: Residence halls officially close for nongraduating students.
May 11, Friday: Baccalaureate.
May 12, Saturday: Commencement.
May 13, Sunday: Residence halls officially close for graduating seniors.

Taos May Term 2012
Some areas of instruction may offer a limited number of selected courses during the May term, May 9–27. Each May term course may have unique start and end dates within the May 9–27 term to accommodate the particular needs of the course.

NOTE: The following dates are applicable only for SMU-in-Taos.
May 9, Wednesday: Travel day and arrival of students, 2–6 p.m.
May 10, Thursday: First day of classes.
May 26, Saturday: Examinations.
May 27, Sunday: Departure of May term students.

Summer Term 2012
The summer term consists of three primary sessions: first session, second session and a full summer session. There are also shorter and longer sessions to accommodate the particular needs of the various instructional units such as SMU-In-Taos, SMU Abroad and Perkins School of Theology.

Full Summer Session

Classes meet 2 hours and 15 minutes twice a week
or 1 hour and 30 minutes three times a week.

May 28, Monday: University holiday – Memorial Day.
May 31, Thursday: First day of classes.
June 5, Tuesday: Last day to enroll, add courses or drop courses without grade record or tuition billing. Last day to file for August graduation.
June 11, Monday: Last day to declare pass/fail, no credit or first-year repeated course grading options.
July 5, Thursday: Follows a Wednesday class schedule.
July 17, Tuesday: Last day for August graduation candidates to change grades of Incomplete.
July 24, Tuesday: Last day to drop a course.
July 30, Monday: Last day to withdraw from the University.
August 3, Friday: Last day of instructions and examinations. Official close of the term and date for conferral of degrees.
First Session
Classes meet 2 hours a day, Monday–Friday.

May 28, Monday: University holiday – Memorial Day.
May 31, Thursday: First day of classes.
June 1, Friday: Last day to enroll, add courses or drop courses without grade record or tuition billing.
June 5, Tuesday: Last day to declare pass/fail, no credit or first-year repeated course grading options. Last day to file for August graduation.
June 22, Friday: Last day to drop a course.
June 25, Monday: Last day to withdraw from the University.
June 29, Friday: Last day of instruction and examinations.

Taos Summer I Session
NOTE: The following dates are applicable only for SMU-in-Taos.
May 31, Thursday: Arrival of students and first day of classes.
June 1, Friday: First day of classes.
June 2, Saturday: Last day to enroll, add courses and drop courses without grade record or tuition billing. Permission of Taos program required for all enrollments.
June 28, Thursday: Examinations.
June 29, Friday: Departure of students.

Second Session
Classes meet 2 hours a day, Monday–Friday.

June 5, Tuesday: Last day to file for August graduation.
July 2, Monday: First day of classes.
July 3, Tuesday: Last day to enroll, add courses or drop without grade record or tuition billing.
July 6, Friday: Last day to declare pass/fail, no credit or first-year repeated course grading options.
July 12, Thursday: Last day for August graduation candidates to change grades of Incomplete.
July 24, Tuesday: Last day to drop a course.
July 26, Thursday: Last day to withdraw from the University.
August 1, Wednesday: Last day of instruction and examinations.
August 3, Friday: Official close of the term and conferral date.

Taos August Term 2012
NOTE: The following dates are applicable only for SMU-in-Taos.
July 31, Tuesday: Arrival of students.
August 1, Wednesday: First day of classes.
August 2, Thursday: Last day to enroll, add courses and drop courses without grade record or tuition billing. Permission of Taos program required for all enrollments.
August 16, Thursday: Examinations.
August 17, Friday: Departure of students.
Major Religious Holidays

(August 2011–August 2012)

Listing of religious holidays for use in requesting excused absences according to University Policy 1.9. For religious holidays not listed, the instructor or supervisor may contact the Office of the Chaplain.

Christian

Christmas: December 25, 2011
Good Friday: April 6, 2012
Easter Sunday: April 8, 2012
Easter Sunday (Orthodox): April 15, 2012

Hindu

Janmashtami: August 26, 2011
Dasera: October 3–12, 2011
Diwali: November 1, 2011

Jewish*

Rosh Hashanah: September 28–30, 2011
Yom Kippur: October 7–8, 2011
Sukkot: October 12–19, 2011
Hanukkah: December 20–28, 2011
Pesach (Passover): April 6–8, 2012
Shavuot: May 26–28, 2012

Muslim

Ramadan: July 31–August 1, 2011
Eid al Fitr: August 29–30, 2011
Eid al Adha: November 5–6, 2011
Islamic New Year: November 25–26, 2011
Ashura: December 4–5, 2011
Mawlid an Nabi: February 3–4, 2012

*All holidays begin at sundown before the first day noted and conclude at sundown on the day(s) noted.
DESCRIPTION OF THE UNIVERSITY

THE VISION OF SOUTHERN METHODIST UNIVERSITY
To create and impart knowledge that will shape citizens who contribute to their communities and lead their professions in a global society.

THE MISSION OF SOUTHERN METHODIST UNIVERSITY
Southern Methodist University will create, expand and impart knowledge through teaching, research and service, while shaping individuals to contribute to their communities and excel in their professions in an emerging global society. Among its faculty, students and staff, the University will cultivate principled thought, develop intellectual skills and promote an environment emphasizing individual dignity and worth. SMU affirms its historical commitment to academic freedom and open inquiry, to moral and ethical values, and to its United Methodist heritage.

To fulfill its mission, the University strives for quality, innovation and continuous improvement as it pursues the following goals:
● Goal one: To enhance the academic quality and stature of the University.
● Goal two: To improve teaching and learning.
● Goal three: To strengthen scholarly research and creative achievement.
● Goal four: To support and sustain student development and quality of life.
● Goal five: To broaden global perspectives.

SOUTHERN METHODIST UNIVERSITY
As a private, comprehensive university enriched by its United Methodist heritage and its partnership with the Dallas Metroplex, Southern Methodist University seeks to enhance the intellectual, cultural, technical, ethical and social development of a diverse student body. SMU offers undergraduate programs centered on the liberal arts; excellent graduate and continuing education programs; and abundant opportunities for access to faculty in small classes, research experience, international study, leadership development, and off-campus service and internships, with the goal of preparing students to be contributing citizens and leaders for our state, the nation and the world.

SMU comprises seven degree-granting schools: Dedman College of Humanities and Sciences, Meadows School of the Arts, Edwin L. Cox School of Business, Annette Caldwell Simmons School of Education and Human Development, Bobby B. Lyle School of Engineering, Dedman School of Law, and Perkins School of Theology.

Founded in 1911 by what is now the United Methodist Church, SMU is non-sectarian in its teaching and is committed to the values of academic freedom and open inquiry.

The University has 109 buildings, a total enrollment that has averaged more than 10,000 the past 10 years, a full-time faculty of 668 and assets of $2.26 billion – including an endowment of $1.06 billion (Market Value, June 30, 2010).

Offering only a handful of degree programs at its 1915 opening, the University presently awards baccalaureate degrees in more than 80 programs through five undergraduate schools and a wide variety of graduate degrees through those and professional schools.

Of the 10,938 students enrolled for the 2010 fall term, 6,192 were undergraduates and 4,746 were graduate students. The full-time equivalent enrollment was 6,034 for undergraduates and 3,248 for graduate students.
Nearly all the students in SMU’s first class came from Dallas County, but now 48 percent of the University’s undergraduate student body comes from outside Texas. In a typical school year, students come to SMU from every state; from 92 foreign countries; and from all races, religions and economic levels.

Undergraduate enrollment is 53 percent female. Graduate and professional enrollment is 45 percent female.

A majority of SMU undergraduates receive some form of financial aid. In 2010–2011, 77.4 percent of first-year students received some form of financial aid, and 30.5 percent of first-year students received need-based financial aid.

Management of the University is vested in a Board of Trustees of civic, business and religious leaders – Methodist and non-Methodist. The founders’ first charge to SMU was that it become not necessarily a great Methodist university, but a great university.

ACADEMIC ACCREDITATION

Southern Methodist University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Bachelor’s, Master’s, professional and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Southern Methodist University. Note: The commission is to be contacted only if there is evidence that appears to support an institution’s significant noncompliance with a requirement or standard.

Individual academic programs are accredited by the appropriate national professional associations.

The Cox School of Business is accredited by AACSB International, the Association to Advance Collegiate Schools of Business (777 South Harbour Island Boulevard, Suite 750, Tampa, Florida 33602-5730; telephone number 813-769-6500; fax 813-769-6559). The Cox School was last accredited by AACSB International in 2007.

The Dedman School of Law is accredited by the American Bar Association. In Dedman College, the Department of Chemistry is accredited annually by the Committee on Professional Training of the American Chemical Society, and the Psychology Department’s Ph.D. program in clinical psychology is accredited by the American Psychological Association.

Perkins School of Theology of Southern Methodist University is accredited by the Commission on Accrediting of the Association of Theological Schools (ATS) in the United States and Canada (10 Summit Park Drive, Pittsburgh, Pennsylvania 15275-1103; telephone number 412-788-6506) to award M.Div., C.M.M., M.S.M., M.T.S. and D.Min. degrees.

In the Meadows School of the Arts, the Art and Art History programs are accredited through the National Association of Schools of Art and Design, the Dance Division is accredited by the National Association of Schools of Dance, the Music Division is accredited by the National Association of Schools of Music, the Music Therapy program is approved by the American Music Therapy Association, and the Theatre program is accredited by the National Association of Schools of Theatre.

In the Linda and Mitch Hart eCenter, The Guildhall at SMU’s Master of Interactive Technology is accredited by the National Association of Schools of Art and Design for the two specializations in art creation and level design.

Accredited programs in the Simmons School of Education and Human Development include the Teacher Education undergraduate and graduate certificate...
programs, which are accredited by the State Board of Educator Certification (SBEC) and the Texas Education Agency (TEA). The undergraduate program is approved annually by TEA. The Learning Therapist Certificate program, which is accredited by the International Multisensory Structured Language Education Council, was last accredited in 2006.

The Lyle School of Engineering undergraduate programs in civil engineering, computer engineering, electrical engineering, environmental engineering and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700. The undergraduate computer science program that awards the degree Bachelor of Science (B.S.) is accredited by the Computing Accreditation Commission of ABET. The undergraduate computer science program that awards the degree Bachelor of Arts (B.A.) is not accredited by a Commission of ABET. ABET does not provide accreditation for the discipline of management science.
DEDMAN COLLEGE OF HUMANITIES AND SCIENCES

Dedman College of Humanities and Sciences has been the intellectual heart of the University since SMU was founded in 1911. The college, one of the nation’s premier liberal arts institutions, has earned a reputation for the breadth and depth of its graduate programs and the quality of its learning and research resources.

Graduate work at the Master’s level has been offered at SMU since the University first opened its doors in 1915. Doctoral work was begun in 1959. Graduate faculty members are actively engaged in research and have a strong commitment to student participation in their projects. Excellent students are attracted from all regions of the United States and from many foreign countries.

For information in addition to that given in this catalog, contact the Office of Research and Graduate Studies at 214-768-4345 or smugrad@smu.edu.

The degrees available through the graduate faculty of Dedman College are the M.A., M.S. and Ph.D. Those fields of study that are starred indicate the areas in which doctoral programs are offered.

* Anthropology
  * Medical Anthropology
* Biological Sciences
* Chemistry
  * Geology
  * Geophysics
    Applied Geophysics
* Economics
  Applied Economics
* English-Literature
* History
* Computational and Applied Mathematics
  Medieval Studies
* Physics
* Psychology
  Clinical
* Religious Studies
* Statistical Science
  Women's and Gender Studies
Admission may be of three types:

1. **Full**, without restriction.
2. **Provisional**, when some essential document is lacking or the record suggests the advisability of a trial period. Provisional status is reviewed when the deficiency has been corrected or after the student has completed a minimum of 12 term hours of coursework. If, on review, the record is found satisfactory, the status is altered by the Office of Research and Graduate Studies to full admission with credit from the time of first enrollment.
3. **Nondegree**, when the student needs background courses or desires transferable graduate credit for certification or some other purpose but is not undertaking a degree program. Nondegree admission is selective. Not more than six term hours of graduate credit earned under nondegree status may be applied toward an advanced degree in Dedman College.

No student is allowed to enroll unless notified of admission by the Office of Research and Graduate Studies.

**ADMISSION REQUIREMENTS**

Applicants holding the Bachelor’s degree from an institution of standard collegiate rank, recognized by the accrediting agencies in whose jurisdiction the college is located, may apply for admission to graduate studies. Graduates of colleges not fully recognized will be treated as special cases and required to produce evidence attesting to the quality of their programs. Any student whose Bachelor’s degree is not equivalent to the comparable baccalaureate degree from Southern Methodist University may be required to take sufficient additional work to make up the deficiency. All applicants must have adequate subject preparation in the chosen major field, normally an overall grade point average of 3.000 (on a 4.000 scale) and a satisfactory score on the GRE graduate school admission test.

**FOREIGN STUDENTS**

Applicants from countries where the predominant language is not English are required to supply scores on the TOEFL English language proficiency test administered by the Educational Testing Service. The minimum TOEFL score for admission is 80 on the Internet-based test. The Test of Spoken English or equivalent is required for teaching assistants. International English Language Testing System scores also are accepted.

Applicants who have completed studies at and received diplomas or professional titles from institutions outside the United States should ordinarily have completed 16 years of study: 12 years at the elementary and secondary school level and four years at the university level. Eligibility is judged by grades (marks), class obtained or rank achieved in class. Evidence of class placement therefore should be specifically set forth in the official records submitted.

Applicants holding Bachelor’s degrees from foreign universities should not assume that these degrees will be automatically accepted in U.S. universities. Applicants who have achieved first or high second class from universities that confer classes based on grades (marks) will be preferred. Applicants holding Bachelor’s degrees with honors or Master’s degrees have a better chance of being accepted in U.S. universities. Also, decisions will be based on the academic standing of the
institutions from which the applicant has graduated. Professional diplomas and higher certificates from technical or vocational schools are normally not considered as equivalent to a Bachelor’s degree. Departments have the option of making authentication of transcripts part of the process of offering assistantships to international students.

APPLICATION PROCEDURE

Access to the online application is available at www.applyweb.com/apply/smugr/menu.html. The online application is available from August 15 to May 1. For general questions, students should contact smugrad@smu.edu. A complete application should include the following:

1. The application.
2. An official transcript for all post-high school work.
3. The application fee of $75 collected online.
4. Three letters of recommendation.
5. GRE graduate school admission test scores.
6. TOEFL English language proficiency test scores for foreign applicants.
7. Writing samples required for history or English programs.

An application will be considered when all the aforementioned items have been received in the Graduate Office.

APPLICATION DEADLINES

**Fall:**
- **December 1** – Psychology, Ph.D.
- **January 15** – English Ph.D., Religious Studies
- **February 1** – To be considered for department assistantships and/or first-round admissions decisions
- **March 1** – Second round of admission decisions
- **May 1** – Final deadline

**Spring:** **November 30** – Final deadline

Due to the extra time necessary for visa processing, foreign applicants are advised to have their completed application sent to the Office of Research and Graduate Studies at least two months before these deadlines. Students who apply for departmental assistantships should submit their applications by **February 1** as noted.

MCNAIR SCHOLARS PROGRAM

SMU encourages McNair Scholars to apply for graduate studies in Dedman College of Humanities and Sciences by waiving their application fee. In addition, 10 tuition fee waivers – five through Dedman College and five through the Lyle School of Engineering – are designated for admitted McNair Scholars applicants. SMU supports the aims of this program – to identify and mentor undergraduates as they prepare for graduate school – and would like to participate in helping students realize their goals.

McNair Scholars should identify themselves as such on their application. Questions can be directed to smugrad@smu.edu.
IRT APPLICANTS

As the newest member of a consortium of universities working with the Institute for Recruitment of Teachers, SMU extends a welcome to applicants seeking graduate degrees. SMU provides an application fee waiver and invites applicants to apply to Dedman College’s graduate programs.

Departments award assistantships based on the merits of the applicant and the limits of the budget.
FINANCIAL INFORMATION

The catalog supplement *Bursar’s Financial Information: Southern Methodist University* is issued each academic year. It provides the general authority and reference for SMU financial regulations and obligations, as well as detailed information concerning tuition, fees and living expenses. The supplement can be accessed online at [smu.edu/bursar/financialinformation.asp](http://smu.edu/bursar/financialinformation.asp). More information is available through the Division of Enrollment Services (phone: 214-768-3417).

Students registering in Continuing Student Enrollment must ensure that payment is received in the Division of Enrollment Services by the due date (published on the bursar’s website). No confirmation of receipt of payment will be sent. Invoice notifications are emailed to the student’s SMU email address after registration for the student to view on the Web. If notification has not been received two weeks prior to the due date, the student should contact Enrollment Services. The registration of a student whose account remains unpaid after the due date may be canceled at the discretion of the University. Students registering in New Student Enrollment and Late Enrollment must pay at the time of registration. Students are individually responsible for their financial obligations to the University. All refunds will be made to the University, with the exception of federal parent PLUS loans and the SMU monthly TuitionPay Payment Plan. If the refund is issued by check, the student may request, in writing, that the refund be sent to another party. Any outstanding debts to the University will be deducted from the credit balance prior to issuing a refund check. Students with Title IV financial aid need to sign an Authorization to Credit Account form. Students with a federal parent PLUS Loan need to have the parent sign an Authorization to Credit Account Parent form. A student whose University account is overdue or who in any other manner has an unpaid financial obligation to the University will be denied the recording and certification services of the Office of the Registrar, including the issuance of a transcript or diploma, and may be denied readmission until all obligations are fulfilled. The Division of Enrollment Services may stop the registration, or may cancel the completed registration, of a student who has a delinquent account or debt, and may assess all attorney’s fees and other reasonable collection costs (up to 50 percent) and charges necessary for the collection of any amount not paid when due. Matriculation in the University constitutes an agreement by the student to comply with all University rules, regulations and policies.

Arrangements for financial assistance from SMU must be made in advance of registration and in accordance with the application schedule of the Division of Enrollment Services, Financial Aid. A student should not expect such assistance to settle delinquent accounts.

Students who elect to register for courses outside of their school of record will pay the tuition rate of their school of record.

REFUNDS FOR WITHDRAWAL FROM THE UNIVERSITY

*Note:* Students should also refer to the Academic Records, General and Enrollment Standards section of this catalog.

A student who wishes to withdraw (resign) from the University before the end of a term or session must initiate a Student Petition for Withdrawal form, obtain approval from his/her academic dean and submit the form to the Division of Enrollment Services, University Registrar. The effective date of the withdrawal is the date on which the Student Petition for Withdrawal is processed in the Registrar’s
Office. Discontinuance of class attendance or notification to the instructors of intention to withdraw does not constitute an official withdrawal.

Reduction of tuition and fees is based on the schedule listed in the *Bursar’s Financial Information: Southern Methodist University* supplement and is determined by the effective date of the withdrawal. The supplement can be accessed online at smu.edu/bursar/financialinformation.asp. More information is available through the Division of Enrollment Services (phone: 214-768-3417).

**NOTE:** For students receiving financial aid (scholarships, grants or loans), when the withdrawal date qualifies for reduction of tuition and fees charges, the refund typically will be used to repay the student aid programs first and go to the student/family last. Further, government regulations may require that SMU return aid funds whether or not the University must reduce its tuition and fees (based on the *Bursar’s Financial Information: Southern Methodist University* supplement); hence, a student whose account was paid in full prior to withdrawal may owe a significant amount at withdrawal due to the required return of student aid. Therefore, students who receive any financial aid should discuss, prior to withdrawal, the financial implications of the withdrawal with staff of the Division of Enrollment Services.

Medical withdrawals provide a daily pro rata refund of tuition and fees, and have conditions that must be met prior to re-enrollment at SMU. Medical withdrawals must be authorized by the medical director, psychiatric director, counseling and testing director, or vice president for student affairs.

Withdrawing students living in SMU housing must check out of residence halls through the Department of Residence Life and Student Housing per established procedures.

**GRADUATE AND PROFESSIONAL STUDENT AID**

University grants, scholarships, fellowships and assistantships are awarded in the school or department in which the graduate student will enroll. Departments that offer the M.A., M.S. or Ph.D. degrees offer a significant number of tuition scholarships and teaching or research assistantships each year. For more information, students should contact the department.

Grants and loans for Texas residents, private and federal loans, and employment programs may be available by filing the Free Application for Federal Student Aid. The FAFSA may be completed online at fafsa.gov. A personal identification number can be obtained at www.pin.ed.gov, which can be used to electronically sign the application. SMU’s code number is 003613.

More information is available online at smu.edu/bursar.
Enrollment in the University is a declaration of acceptance of all University rules and regulations. A complete listing is available online at smu.edu/policy. Additional information regarding rules and regulations of the University can be found in this catalog.

**GENERAL POLICIES**

**Confidentiality of Education Records**

The Family Educational Rights and Privacy Act of 1974 is a federal law that grants students the right to inspect, obtain copies of, challenge, and, to a degree, control the release of information contained in their education records. The act and regulations are very lengthy, and for that reason, SMU has issued guidelines that are available at the University Registrar’s Office FERPA website (www.smu.edu/ferpa). Policy 1.18 of the University Policy Manual, accessible at www.smu.edu/policy, also discusses this law.

In general, no personally identifiable information from a student’s education record will be disclosed to any third party without written consent from the student. Several exceptions exist, including these selected examples: 1) information defined by SMU as directory information may be released unless the student requests through Access.SMU Self Service that it be withheld, 2) information authorized by the student through Access.SMU Self Service may be released to those individuals designated by the student and 3) information may be released to a parent or guardian if the student is declared financially dependent upon the parent or guardian as set forth in the Internal Revenue Code. More information is available at www.smu.edu/ferpa.

**Student File Number**

The University assigns each student an eight-digit SMU identification number. The student should furnish the SMU ID number on all forms when requested because it is the primary means the University has to identify the student’s academic records and transactions related to the records.

**Name Change**

A student who has a change in name must provide to the University Registrar’s Office his or her Social Security card or the form issued by the Social Security Administration. Enrollment or records services for the student under a name different from the last enrollment cannot be accomplished without one of the above documents. All grade reports, transcripts and diplomas are issued only under a person’s legal name as recorded by the University Registrar’s Office.

**Mailing Addresses, Telephone, Email Address and Emergency Contact**

Each student must provide the University Registrar’s Office with a current home address, telephone number and local mailing address as well as the name, address and telephone number of a designated emergency contact. Students enrolling at SMU authorize the University to notify their emergency contacts in the event of a situation affecting their health, safety, or physical or mental well-being, and to provide these contacts with information related to the situation.
Students are expected to keep current all their addresses and telephone numbers, including emergency contact details, through Access.SMU, the University’s Web-based self-service system. Changes to parent information should be reported on the Web form found at [www.smu.edu/registrar](http://www.smu.edu/registrar). Students may be prevented from enrolling if their information is insufficient or outdated.

The University issues all students an email address. Students may have other email addresses, but the University-assigned email address is the official address for University electronic correspondence, including related communications with faculty members and academic units (except for distance education students).

Official University correspondence may be sent to students’ mailing addresses or SMU email addresses on file. It is the responsibility of students to keep all their addresses current and to regularly check communications sent to them since they are responsible for complying with requests, deadlines, and other requirements sent to any of their mailing addresses on file or to their SMU email.

**Cell Phones**

The University requests that students provide cellular telephone numbers as they are one means of communicating with students during an emergency. Cellular telephone numbers may also be used by University officials conducting routine business. Students who do not have cellular telephones or do not wish to report the numbers may declare this information in lieu of providing cellular telephone numbers. However, students may be prevented from enrolling if their cellular telephone numbers are not on file or if they have not declared “no cellular telephone” or “do not wish to report cellular number.”

**Transcript Service**

A transcript is an official document of the permanent academic record maintained by the University Registrar’s Office. The permanent academic record includes all SMU courses attempted, all grades assigned, degrees received and a summary of transfer hours accepted. Official transcripts and certifications of student academic records are issued by the University Registrar’s Office for all students. Copies of high school records and transfer transcripts from other schools must be requested from the institutions where the coursework was taken.

Transcripts are $12.25 per copy. Additional copies in the same request mailed to the same address are $3.50. Additional copies mailed to different addresses are $12.25 a copy. PDF transcripts are $16.00 per email address and are available only for students who attended after summer 1996. Requests may be delayed due to outstanding financial or other obligations, or for posting of a grade change, an earned degree or term grades. Instructions for requesting a transcript to be mailed

### Footnotes

*Chapter 675, S.B. 302. Acts of the 61st Texas Legislature, 1969 Regular Session, provides:

**Section I.** No person may buy, sell, create, duplicate, alter, give or obtain; or attempt to buy, sell, create, duplicate, alter, give or obtain a diploma, certificate, academic record, certificate of enrollment or other instrument which purports to signify merit or achievement conferred by an institution of education in this state with the intent to use fraudulently such document or to allow the fraudulent use of such document.

**Section II.** A person who violates this act or who aids another in violating this act is guilty of a misdemeanor and upon conviction is punishable by a fine of not more than $1,000 and/or confinement in the county jail for a period not to exceed one year.
or picked up on campus are available through the “Transcript Requests” link at www.smu.edu/registrar. A student may request his or her official transcript through Access.SMU Student Center. Requests are processed through the National Student Clearinghouse. Telephone and email requests are not accepted. Students or their specified third party can pick up their transcripts at the University Registrar’s Office, 101 Blanton Building. No incomplete or partial transcripts, including only certain courses or grades, are issued. Transcripts cannot be released unless the student has satisfied all financial and other obligations to the University. Transcripts may be delayed pending a change of grade, degree awarded or term grades.

SMU is permitted, but not required, to disclose to parents of a student, information contained in the education records of the student if the student is a dependent as defined in the Internal Revenue Code.

Transcripts may be released to a third party as specified by the student on the Student’s Consent for SMU to Release Information to Student’s Specified Third Party form accessible at www.smu.edu/registrar/ferpa/forms.asp.

**Final Examinations**

Final course examinations shall be given in all courses where they are appropriate, must be administered as specified in the official examination schedule and shall not be administered during the last week of classes. Exceptions to the examination schedule may be made only upon written recommendation of the chair of the department sponsoring the course and concurrence of the dean of that school, who will allow exceptions only in accordance with guidelines from the Office of the Provost.

**Academic Grievance and Appeals Procedures for Students With Disabilities**

The University policy for academic grievance and appeals procedures for students with disabilities is available in the Office of Disability Accommodations and Success Strategies and the University Registrar’s Office.

**Term Hour Loads**

The unit of measure for the valuation of courses is the term hour; i.e., one lecture hour or three laboratory hours per week for a term of approximately 16 weeks (including final examinations).

Enrollment for nine hours of coursework per term is recognized as a full load for persons engaged in graduate studies. Persons who enroll for fewer than these minimum hours are designated part-time students.

A graduate student working on the completion of a thesis, dissertation or performance recital requirement on a full-time or part-time basis; enrolled in an internship or co-op program; enrolled as a third-year theatre major working on the completion of required production projects; or having an instructor appointment as part of a teaching fellowship, but not enrolled for the required number of hours; may be certified as a full-time or part-time student if the student is enrolled officially for at least one course and is recognized by his or her academic dean or the dean for Research and Graduate Studies as working on the completion of the thesis, dissertation or internship requirement on a full-time or part-time basis. In other special situations, a student not enrolled for the required number of hours may be certified as a full-time or part-time student if the student is officially enrolled for at
least one course, is recognized by the academic dean as a full-time or part-time student, and such recognition is approved by the provost.

Stop Enrollment/Administrative Withdrawal
Insufficient or improper information given by the student on any admission or enrollment form – or academic deficiencies, disciplinary actions and financial obligations to the University – can constitute cause for the student to be determined ineligible to enroll or to be administratively withdrawn.

ENROLLMENT POLICIES
Course Scheduling and Enrollment Cycles
When students enter their school of record and into a specific degree program, they are assigned an academic adviser. Students should consult with the adviser for course scheduling, schedule changes, petitions, degree requirements and other such academic concerns. Advisers normally will have established office hours. The offices of the academic deans monitor progress and maintain official degree plans for all students in their schools.

Each fall, spring and summer term has an enrollment period during which the formal process of enrollment in the University is completed. Prior to each enrollment period, the University Registrar’s Office will publish enrollment instructions.

Each student is personally responsible for complying with enrollment procedures and for ensuring the accuracy of his or her enrollment. Students are expected to confirm the accuracy of their enrollment each term. Students who discover a discrepancy in their enrollment records after the close of enrollment for the term should immediately complete an Enrollment Discrepancy Petition. Petition instructions are available at www.smu.edu/registrar. Petitions are to be submitted to the record offices of the appropriate academic deans within six months of the term in which the discrepancy appeared. Petitions submitted later than six months after the discrepancy may not be considered.

Schedule Changes
The deadline for adding courses, dropping courses without grade record, and changing sections for each enrollment period is listed in the Official University Calendar. Students are encouraged to seek assistance from their advisers when considering whether to add or drop a course. A student may drop a course with a grade of W (Withdrawn) through approximately midterm by using the student Access.SMU Self Service. The specific deadline is listed in the Official University Calendar (www.smu.edu/registrar).

After the deadline date in the Official University Calendar, the student may not drop a class. All schedule changes must be processed by the deadline date specified in the Official University Calendar. Schedule changes are not complete for official University record purposes unless finalized in the University Registrar’s Office.

Student-Athletes. Students must consult with the Athletic Compliance Office prior to dropping a course. In the consultation, the student will review the effects the drop might have on his or her athletic participation and financial aid. After the consultation, the Compliance Office will update Access.SMU Self Service to allow the student to process the drop, if necessary. The consultation is advisory; students are
responsible for their enrollment. For assistance regarding scholarships or other aspects of being a student-athlete, students should contact the Office of the Assistant Athletic Director for Student-Athlete Development.

**International Students.** Students should consult with the International Center prior to dropping a course. If dropping a course will cause the student to be enrolled in fewer than 12 hours, the student’s immigration status could be affected. After the consultation, the student may drop a course through Access.SMU Self Service. The consultation is advisory; students are responsible for their enrollment.

**Students on Merit or Need-Based Financial Aid.** Students should consult with their financial aid adviser prior to dropping a course. If dropping a course will cause the student to be enrolled in fewer than 12 hours, the student’s financial aid status may be affected. After the consultation, the student may drop a course through Access.SMU Self Service. The consultation is advisory; students are responsible for their enrollment. Questions regarding this procedure or financial aid should be directed to the Office of the Associate Financial Aid Director.

**Withdrawal From the University**

*Note:* Students receiving financial aid should refer to the Financial Information section of this catalog. Students should be aware of the difference between a *drop* and a *withdrawal* and remember that they have different deadlines and separate financial policies. The deadlines are posted each term on the Official University Calendar at www.smu.edu/registrar. A *drop* occurs when a student removes one or more courses from his or her schedule and remains enrolled in at least one credit hour for the term. A *withdrawal* occurs when removing the course or courses will result in the student being enrolled in zero hours for the term. If a student removes all courses from his or her schedule prior to the payment due date, the transaction is considered a *cancellation* and does not result in financial penalty or impact the student’s transcript.

A student who wishes to withdraw (resign) from the University before the end of a term or session must initiate a Student Petition for Withdrawal form, obtain approval from his/her academic dean and submit the form to the Division of Enrollment Services, University Registrar. The effective date of the withdrawal is the date on which the Student Petition for Withdrawal is processed in the Registrar’s Office. Discontinuance of class attendance or notification to the instructors of intention to withdraw does not constitute an official withdrawal.

The enrollment of students who withdraw on or before the fifth day of regular classes as listed in the Official University Calendar will be canceled. Courses and grades are not recorded for canceled enrollments. A student who withdraws after the fifth class day will receive the grade of *W* in each course in which enrolled.

Reduction of tuition and fees is based on the schedule listed in the *Bursar’s Financial Information: Southern Methodist University* supplement and is determined by the effective date of the withdrawal. The supplement is online at smu.edu/bursar/financialinformation.asp. More information is available through the Division of Enrollment Services (phone: 214-768-3417).

Medical withdrawals provide a daily pro rata refund of tuition and fees, and have conditions that must be met prior to re-enrollment at SMU. Medical withdrawals must be authorized by the medical director, psychiatric director, counseling and testing director, or vice president for student affairs.
Withdrawing students living in SMU housing must check out of residence halls through the Department of Residence Life and Student Housing per established procedures.

**Audit Enrollment (Course Visitor)**

Students desiring to audit (visit) a class, whether or not concurrently enrolled for regular coursework, are required to process an Audit Enrollment Request Form. Forms are available at [www.smu.edu/registrar](http://www.smu.edu/registrar) under Forms Library. Space must be available in the class. The following regulations are applicable:

1. Classroom recitation and participation are restricted; availability of course handouts, tests and other materials is restricted; no grade is assigned and no credit is recorded; no laboratory privileges are included.
2. The student’s name does not appear on class rosters or grade rosters.
3. Regular admission and enrollment procedures are not conducted for auditors.
4. The audit fee is nonrefundable.
5. If credit is desired, the course must be enrolled for and repeated as a regular course, and the regular tuition must be paid.

**No-Credit Enrollment**

Enrollment for “no credit” is accomplished in the conventional manner of enrollment, with regular admission and enrollment procedures being required. The student pays the regular tuition and fees, participates in class activities, is listed on class rolls, and receives the grade of NC upon completion of the coursework. The student must indicate in writing no later than the 12th day of classes (the fourth day during summer sessions) that he or she wishes to take a course for no credit. Permission of the instructor or department is required for this type of enrollment. This enrollment is different from audit enrollments, for which no enrollment or grade is recorded.

**Class Attendance**

Regular class attendance is required. The instructor of each class announces at the beginning of the course policies regarding the effect of class attendance on the student’s standing in the course. These policies may include dropping a student from the course for nonattendance after a certain number of absences. All reasons for absence should be submitted at once to the instructor.

The satisfactory explanation of absence does not relieve a student from responsibility for the work of the course during his or her absence. A student who misses an announced test, examination or laboratory period in a regular course of study and has the permission of the instructor may be given an opportunity to make up the work at the instructor’s convenience. The instructor determines in all instances the extent to which absences and tardiness affect each student’s grade.

Students may be dropped by a course instructor or academic dean for nonattendance or tardiness with a grade of W until the calendar deadline to drop. After the deadline, students must remain enrolled in the course. Dedman students who miss two successive class meetings during the official add-drop period at the beginning of each term are subject to being dropped from the class. To avoid this possibility, students should contact the instructor or the department concerned immediately following such a series of absences.
A student who has a passing grade in a course at the time of the final examination but misses the examination and satisfies the dean that the absence was unavoidable may secure from the dean permission to take the examination at a time convenient for the instructor.

**Absence Due to Illness**

SMU’s Memorial Health Center does not provide documentation for granting excused absences from class. If students are absent for illness, they should talk to their professors about how they might catch up with the material missed. If students are seriously ill and require hospitalization or an extended absence, students should talk to their professors and the Office of Student Life to decide how to deal with the interruption in their studies. To facilitate communication with their professors about their absence, students may submit the Absence from Class Form available at [www.smu.edu/healthcenter](http://www.smu.edu/healthcenter).

**Interpretation of Course Numbers**

Each SMU course has a four-digit course number. The first number indicates the general level of the course: 1 – 1 year; 2 – sophomore; 3 – junior; 4 – senior; 5 – senior or graduate; 6, 7, 8, 9 – graduate. The second digit specifies the number of credit hours (“0” for this digit denotes no credit, ½ hour of credit, or 10–15 hours of credit; for theology courses, a “1” denotes one or 1.5 hours of credit). The third and fourth digits are used to make the course number unique within the department.

**GRADE POLICIES**

**Grade Scale**

The grade of a student in any course is determined by the instructor of the course. The following grades are authorized for recording on the student’s official undergraduate academic record maintained by the University Registrar’s Office.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Description</th>
<th>Grade Points per Term Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent Scholarship</td>
<td>4.000</td>
</tr>
<tr>
<td>A-</td>
<td>Excellent Scholarship</td>
<td>3.700</td>
</tr>
<tr>
<td>B+</td>
<td>Good Scholarship</td>
<td>3.300</td>
</tr>
<tr>
<td>B</td>
<td>Good Scholarship</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td>Good Scholarship</td>
<td>2.700</td>
</tr>
<tr>
<td>C+</td>
<td>Fair Scholarship</td>
<td>2.300</td>
</tr>
<tr>
<td>C</td>
<td>Fair Scholarship</td>
<td>2.000</td>
</tr>
<tr>
<td>C-</td>
<td>Fair Scholarship</td>
<td>1.700</td>
</tr>
<tr>
<td>D+</td>
<td>Poor Scholarship</td>
<td>1.300</td>
</tr>
<tr>
<td>D</td>
<td>Poor Scholarship</td>
<td>1.000</td>
</tr>
<tr>
<td>D-</td>
<td>Poor Scholarship</td>
<td>0.700</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
<td>0.000</td>
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<tr>
<td>P, CR</td>
<td>Pass, Credit</td>
<td>*</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>*</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit Received</td>
<td>*</td>
</tr>
<tr>
<td>X</td>
<td>No Grade Received in Registrar’s Office</td>
<td>*</td>
</tr>
<tr>
<td>WP/W</td>
<td>Withdrawal Passing</td>
<td>*</td>
</tr>
</tbody>
</table>

* Grades not included in GPA
Grade of Incomplete

A student may receive a grade of Incomplete (I) if at least 50 percent of the course requirements have been completed with passing grades, but for some justifiable reason acceptable to the instructor, the student has been unable to complete the full requirements of the course. At the time a grade of I is given, the instructor must stipulate in writing to the student and to the University Registrar’s Office the requirements and completion date that are to be met and the grade that will be given if the requirements are not met by the completion date.

For graduate students, a maximum of two (six hours) concurrently held grades of Incomplete in courses other than thesis or dissertation is allowed. If this maximum is reached, the student will be allowed to take only one three-hour course per term until the Incomplete total is reduced. Students who accumulate a total of three grades of Incomplete in courses other than thesis or dissertation will be put on probation and not allowed to enroll further until the total is reduced.

Failing is graded F. After such a grade, credit may be obtained only by repeating the course.

The grade of D represents performance below average expectations. Students receiving a D in a course that is a prerequisite to another course should consult with their advisers about repeating the course so that they will be adequately prepared for work in the following course.

The grade of W cannot be recorded unless completion of the official drop or withdrawal process has occurred by the applicable deadline during the term of enrollment. Only the grade of W may be recorded if the student has officially dropped courses from the schedule or withdrawn (resigned) from the University. The grade of W may not be revoked or changed to another grade because the act of officially dropping/withdrawing is irrevocable.

For graduate students, a maximum of two (six hours) concurrently held grades of Incomplete in courses other than thesis is allowed. If this maximum is reached, the student will be allowed to take only one three-hour course per term until the Incomplete total is reduced. Students who accumulate a total of three grades of Incomplete in courses other than thesis will be put on probation and not allowed to enroll further until the total is reduced.

The student’s grades are available to the student through Access.SMU Student Center.

Grade Point Average

A student’s GPA is computed by multiplying the term hours of each course attempted by the grade points earned in the particular course and then dividing the total number of grade points by the total number of hours attempted, excluding those hours for which grades are shown with an asterisk on the grade chart. The GPA is truncated at three decimal places.

Grade Changes

Changes of grades, including change of the grade of I, are initiated by the course instructor and authorized by the academic chair and by the academic dean of the school in which the course was offered. If a student requests a grade change, the instructor may ask the student to provide a written petition requesting the change of grade, which may become an official part of any further process at the instructor’s
Academic Records, General and Enrollment Standards

Changes of grades may be made only for the following authorized reasons: to clear a grade of I, to correct a processing error or to reflect a re-evaluation of the student’s original work. A change of grade will not be based on additional work options beyond those originally made available to the entire class.

Changes of grades of I should be processed within a calendar year of the original grade assignment. Other changes of grades must be processed by the end of the next regular term. No grade will be changed after 12 months or after a student’s graduation except a grade successfully appealed, provided that written notice of appeal is given within six months following graduation, and in extenuating circumstances authorized by the academic dean and approved by the registrar.

Grades for Repeated Courses
Students will be allowed to repeat courses according to the following rules: Both the initial and the second grades will be recorded on the student’s permanent academic record. Both grades will be included in the calculation of the GPA and in the determination of academic probation, suspension, dismissal, honors and graduation. Only the repeated course and not the initial credit hours count toward the number of hours needed for graduation.

Pass/Fail Option
Grades of P or F may be given for graduate-level readings, research and dissertation courses at the 7000 and 8000 level, with the faculty member’s decision concerning use of the option to be stated at the first meeting between the student and the faculty member. Students enrolled in dissertation courses may receive a grade of S for satisfactory progress pending completion of the dissertation.

Grade Appeals
A student who feels that an assigned grade is other than the grade earned must first discuss the matter with the course instructor to determine if the discrepancy is caused by error or misunderstanding. At the time of the initial discussion, the student may be asked to provide a written petition requesting the change of grade.

A student who is not satisfied by the instructor’s denial of a request for a grade change, and who maintains that the original grade was capriciously or unfairly determined, may appeal to the chair of the department in which the course was offered (or, in the case of a nondepartmental course, to a faculty agent designated by the dean of the school offering the course). After discussing the matter with the student, and bearing in mind that the final authority in matters of academic judgment in the determination of a grade rests with the course instructor, the chair (or faculty agent) will consult with the course instructor, who will subsequently report to the student the disposition of the appeal.

A student who is not satisfied by the disposition of the appeal may appeal the decision to the dean of the school offering the course. The dean will take action as he or she deems appropriate. A student may appeal the dean’s decision to the provost. In their actions, the dean and the provost must respect the principle that the determination of a grade rests with the course instructor.
ACADEMIC ADVISING AND SATISFACTORY PROGRESS POLICIES

Academic Advising

Academic advising is an important process for each graduate student at SMU. Each student must meet with his or her assigned academic adviser prior to enrolling for an academic term. At this meeting, the adviser will assist the student in planning a program of study, understanding the Degree Progress Report, and scheduling courses that will count toward graduation requirements. After the initial required advising session, the student is encouraged to seek assistance from the adviser when considering whether to add or drop courses.

For an effective advising relationship, the student must be prepared when meeting with the adviser. The student must initiate the advising appointment. Prior to the meeting, the student should obtain through Access.SMU a Degree Progress Report that provides detailed information concerning completion of degree requirements. The student should also be familiar with different academic programs of interest. The adviser will give assistance to the student, but the student has the final responsibility for the accuracy of the enrollment, the applicability of courses toward the degree requirements and his or her academic performance.

Students are assigned an academic adviser whom they must consult prior to enrollment each term.

Leave of Absence

A leave of absence is a temporary leave from the University – a kind of “time out” which may be necessary during graduate studies. Students may elect to take leaves of absence for a variety of reasons, including 1) medical reasons due to accident or illness, 2) family crises or other personal situation that requires an extended absence from school, 3) financial issues that may take time to resolve, and 4) academic difficulties that may best be handled by taking time to refocus on college work.

Typically, a leave of absence is for one term or one academic year. A student may extend a leave of absence by contacting his/her academic department representative. The process to return to SMU after a leave-of-absence period can be an easy one, especially if the student has gone through the steps to file for a leave of absence and planned ahead for the return. Following SMU’s leave-of-absence guidelines helps 1) assure that the degree requirements per the catalog of record when the student initially matriculated at SMU still apply upon return, 2) assist with financial aid processing and 3) provide the support needed to successfully return to SMU and finish the graduate degree.

SMU’s Leave of Absence Policy provides students with a formal process to “stop out” of SMU for either voluntary or involuntary reasons. Typically, a leave of absence is for a temporary departure from the institution; however, intended permanent withdrawals from SMU will also be processed under the Leave of Absence Policy.

The first step to effect a leave of absence is for the student to arrange an appointment to meet with his/her academic adviser. The adviser will then assist the student with the process.

Academic Progress

Failure to meet established minimum acceptable standards of academic or disciplinary performance can result in probation, suspension or dismissal. Information regarding disciplinary action can be found under Code of Conduct in the University Life and Services section of this catalog.
Graduate students must maintain a cumulative GPA of 3.000. If in any term the student falls below this GPA, the student will be placed on probation for one term. If at the end of the term of probation the cumulative GPA is not up to 3.000, the student may be removed from the program at the discretion of the dean.

**Academic Probation**

Academic probation is a serious warning that the student is not making satisfactory academic progress. A student on academic probation is still eligible to enroll and is considered “in good standing” for enrolling in classes and for certification purposes. In addition, academic probation is not noted on the permanent academic record. However, a student on academic probation may be subject to certain conditions during the period of probation and will also be subject to academic suspension if he or she does not clear academic probation.

**Academic Suspension**

Academic suspension is an involuntary separation of the student from SMU. Academic suspension is for a set period of time to be determined by the dean.

The status of academic suspension is recorded on the permanent academic record. While on academic suspension, a student is not in good academic standing for certification purposes and is not eligible to enroll at SMU.

**Academic Reinstatement.** A student who has been on academic suspension once may apply for reinstatement to SMU. If reinstated, the student may enroll in classes and is considered in good academic standing for purposes of certification. A student who is reinstated remains on academic probation until the conditions of academic probation are satisfied.

**Academic Dismissal**

Academic dismissal is an involuntary separation of the student from SMU. A second suspension that is final results in an academic dismissal from the University. Academic dismissal is final, with no possibility of reinstatement or readmission. Academic dismissal is recorded on the permanent academic record.

**Academic Petitions and Waivers**

Petitions and/or requests for waivers concerning graduation requirements and the evaluation of transfer work should be submitted to the dean’s office of the student’s school of record.

**Transfer Coursework**

Information about transfer coursework is found in the Degree Requirements section of this catalog.

**GRADUATION POLICIES**

**Apply to Graduate**

Students must file an Application for Candidacy to Graduate form with their academic dean’s office at the beginning of the term in which they will complete all degree requirements. Applications should be filed by the deadline date in the Official University Calendar. Students will be charged an Apply to Graduate fee during the term the application is filed.

Students who file an application after the published deadline may be required to pay a nonrefundable late fee. Late applications may be denied after the start of the next term, and the Application for Candidacy to Graduate form applied to the next
conferral date. Students taking coursework at another institution and transferring the course(s) back to SMU are responsible for ensuring that the University Registrar’s Office receives their official transcript in order for their degree to be conferred for the anticipated graduation term.

SMU has three degree conferral periods: fall (December), spring (May) and summer (August). Students who complete their degree requirements during a January intersession, May term, or August term will have their degrees conferred at the conclusion of the following conferral term.

Graduation fees can be found on the bursar's website at smu.edu/bursar/adminfees.asp.

**Commencement Participation**

An All-University Commencement Convocation is held in May for students on schedule and enrolled to complete degree requirements during the spring term. Students on schedule and enrolled to complete all degree requirements during the following summer term may also participate in the University Commencement Convocation, although their degrees will not be conferred until August. Students may also participate in departmental or school ceremonies following the University commencement according to the policies of the departments or schools.

An All-University Graduation Ceremony is held each December for students completing degree requirements during the fall term. Students who completed degree requirements during the previous summer term may also participate. Students on schedule and enrolled to complete all degree requirements during the following January intersession may also participate in the December graduation ceremony, although their degrees will not be conferred until May.

A student may participate once in either the May All-University Commencement Convocation or the December graduation ceremony for a given degree, but not both.

To participate in a ceremony, a student must file an Application for Candidacy to Graduate or Intent to Participate Form with his or her academic dean’s office.

**Statute of Limitations for Degree Plans**

A student who has been readmitted to the University following an absence of more than three years will be expected to meet all current requirements for graduation.

**DEDMAN COLLEGE GRADUATE PROGRAMS POLICIES AND PROCEDURES**

**Concurrent Enrollment**

A student who wishes to enroll concurrently in another college or university should first obtain written approval from the Graduate Dean’s Office that the courses taken will be transferable.

**Approved Courses**

Normally all graduate-level courses are numbered 6000 and above. Graduate students may take courses numbered below 6000 if they are part of the program of study or with the approval of the faculty adviser. For the 6000 level or above, the general prerequisite, in addition to admission to graduate studies, is 12 term hours of advanced work in the department, or six term hours in the department and six in a closely related program approved by the major department and the dean for the
Office of Research and Graduate Studies. If other specific prerequisites are needed, these are stated in departmental listings of courses.

**Readmission and Schedule Changes**

Students already matriculated into a program who were not enrolled in the previous term must file a readmission application. This form must be received in the graduate office **no later than three weeks before** the enrollment date for the desired term of re-entrance.

**Thesis/Praxis/Dissertation**

Several Master’s degree programs require theses for completion; several others leave theses as an option. The Doctor of Engineering program requires the completion of a praxis. Dissertation is required of all Ph.D. programs.

A final copy of the thesis/praxis/dissertation will be electronically submitted as partial fulfillment for degree requirements. A microfilm copy will be housed in the University’s library and can be copied and made available to the University community, and to other individuals and institutions upon request, all at the discretion of the Central University librarian at Southern Methodist University.
DEGREE REQUIREMENTS

General requirements of graduate degree programs are described on the following pages. Additional requirements for specific programs are contained in the corresponding departmental section.

THE MASTER’S DEGREE

Distribution of Courses

Each Master’s degree program includes a minimum of 30 term hours of work. At least 18 term hours of the courses included in each student’s program for a Master’s degree shall be those numbered 6000 or above.

At least 18 term hours of credit must be earned in the major departmental field. (In order to obtain graduate credit for these courses, however, the student must have taken at least 12 term hours of advanced credit in the major field, or else six term hours in that and six in a closely related field approved by the chair of the major department and the graduate dean.) The remaining hours may also be taken in the major field, or else in one or more minor fields approved as closely related to the major subject.

Credits

The term hour is a unit of credit that represents the work accomplished in one hour of lecture each week during a term. The great majority of courses offered meet three hours a week and have a value of three term hours. The second digit of each course number indicates the value in term hours of that course. All courses attempted for credit on a student’s graduate program must average $B$ (3.000) or better, with no grade less than $C$ (2.000) applying toward the degree.

No course counted toward another degree may be counted toward a Master’s degree, either directly or by substitution, with the following exception: Upon approval of the departments concerned, work accomplished while in pursuit of a Ph.D. degree may be used to satisfy requirements for a Master’s degree, provided declaration of intent to receive the degree is received by the Office for Research and Graduate Studies before the date of receipt of the Ph.D. degree.

Transfer of Credits

Not more than six term hours of work from another institution shall apply toward a candidate’s Master’s program. All credit for work transferred must show grades of $A$ or $B$ and is subject to the approval of the major department. An official record of such work must be on file in the graduate office of Southern Methodist University at least 30 days before the student expects to receive the degree. Upon approval of the dean, six term hours of credit may be taken by extension. No credit is allowed for study by correspondence.

Time Limit

No credit will be allowed toward the Master’s degree for courses taken more than six years before the date on which the degree is to be conferred. An appeal for a waiver of this regulation can be made only by faculty members of the department in which the student is doing his or her major work, following a written examination of the subject matter petitioned.
Master’s En Route to the Ph.D.

In certain departments, the Master’s degree may be awarded to those Doctor of Philosophy degree candidates who have successfully completed all Ph.D. requirements except the dissertation.

Thesis

The thesis, if required, must be written under the guidance of a thesis director who is a member of the faculty. The director will be appointed by the departmental faculty after consultation with the candidate.

The thesis, typewritten in final form and accompanied by a statement of approval written by the thesis director, must be presented for inspection at the Office of Research and Graduate Studies.

Students who intend to graduate must pick up a graduation packet, which includes the calendar of important deadlines, graduation forms and the Guidelines for Preparation of Thesis/Dissertation.

In submitting a thesis, the student thereby grants permission to the director of libraries at SMU to make copies at the director’s discretion, upon the request of individuals or institutions.

Examinations

Each candidate must pass an oral and/or written examination, which will include a defense of the thesis if applicable and will test the candidate’s knowledge of the major and minor fields. This examination must be taken before or on the date set by the University calendar.

With approval of the departmental faculty, the departmental chair or the departmental director of graduate studies, as appropriate, shall appoint a committee of the graduate faculty to review the thesis (if applicable) and to conduct the examination. The departmental chair or director will notify members of the committee of their appointments and report the committee membership to the dean of the Office of Research and Graduate Studies.

The committee for Master’s level shall consist of at least three members, two of whom must be the major adviser or a designate, who will serve as chair, and a tenured/tenure-track member of the candidate’s major department. The third member (or additional members) of the committee may be an additional member of the candidate’s major department or an external reviewer, appointed with the approval of the department chair.

The examination will be conducted by the committee and by any other members of the faculty who care to attend as nonvoting members. The chair of the examining committee will set a date, hour and place for the examination that is agreeable to the committee members and the candidate. A unanimous vote of the committee is necessary for approval of the examination. Students who fail the examination may be given a second examination, at a time to be determined by the committee, but not later than one year after the initial examination. Those who fail the examination the second time are thereby disqualified for a degree.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is awarded in recognition of high attainment in a special field of knowledge, as evidenced by examination and by a dissertation presenting the results of significant and original research. General requirements are
listed below. In many programs, however, there are additional requirements, and students should carefully check regulations in their particular programs.

**Qualifying Examination**

The purpose of the qualifying examination is to test the student’s knowledge of the field of specialization, to assess familiarity with the published research in the field, and to determine whether the student possesses critical and analytical skill necessary for a scholarly career. The examination may be written and/or oral and normally is administered two or three years after matriculation in the program. When a faculty committee is responsible for this examination, the members should be drawn from the broad field of specialization so as to be able to assess the student’s ability in breadth as well as depth. If a minor field also is involved, a faculty member in the minor area should participate in administering the qualifying examination. Even though it is not necessary for the qualifying examination committee to be the same as the dissertation committee, a significant overlap between the two committees is desirable for continuity.

A student who fails the qualifying examinations may apply for the privilege of a second examination. Failure on the second examination will render a student ineligible to continue in the Ph.D. program at SMU.

**Admission to Candidacy**

Admission to a graduate program does not imply admission to candidacy for the doctoral degree. To be admitted to candidacy, the student must satisfy the language requirements, if any, in the program and must pass the qualifying examination in the program of study. Upon completion of these requirements, the department will recommend to the dean that the student be admitted to candidacy. The recommendation will be made within five months of the qualifying examination or satisfying the language requirement, whichever comes later. Supporting documents will include the student’s degree plan and the qualifying examination report (ORGS Form 1).

**Residence and Coursework**

The Ph.D. degree normally requires at least 48 hours of graduate work, of which a maximum of 12 hours can be in dissertation research. Normally, a transfer student may be granted up to 24 hours of credit. Additional transfer credit may be granted only with the approval of the graduate dean. The 48 hours may include research, reading and dissertation courses. Some departments may require additional hours. (See department requirements for details.)

Continuous enrollment is required of Ph.D. students, unless they are on research leave. Students undertaking full-time research off campus may petition the department for a research leave of a maximum of two years. When such leaves are granted, the Office of Research and Graduate Studies should be kept informed. Students who do not enroll for two consecutive terms without formal research leave will have to reapply for admission to the program. Students who do not enroll for one term without formal research leave may petition the graduate dean for reinstatement of their student status. After a student has completed the required minimum credit hours toward the Ph.D. program, enrollment for research is possible without hourly credit or grades for four additional terms.
The minimum residence requirement is a total of 18 term hours completed within three terms of residence at SMU. Foreign students may need to satisfy additional residence requirements to comply with U.S. Immigration and Naturalization Service regulations.

**Time Limits**

Ordinarily a student enrolled for full-time study should pass the qualifying examination by the end of the third year. An extension of one year may be granted by the dean upon submission of a petition by the student and the endorsement of the student’s department. Except under unusual circumstances, extensions beyond the fourth year will not be granted.

The doctoral dissertation should be submitted and accepted within five years after the student has been admitted to candidacy. An extension of one year can be granted by the dean. After this time, the students will be dropped from candidacy and can be readmitted only by passing a second qualifying examination, except under special circumstances. In such cases, new time limits will be set by the student’s committee with the approval of the dean.

Time spent on research leaves will not be counted as part of the time limit. If a student must take an unavoidable leave of absence for medical or family reasons, leaves may be granted without affecting time limits. The decision to grant such a leave of absence will be made by the department and approved by the graduate dean. In the case of part-time students, time limit requirements will be interpreted appropriately to allow for their part-time status.

Ordinarily, credit is not allowed for graduate courses (including transfers) that are more than six years old at the time of the qualifying examination. Should the time limits be exceeded, a department may petition the dean to revalidate the credits. Approval is granted only in cases of exceptional merit.

**Dissertation**

A candidate for the doctoral degree must present an acceptable dissertation within the major field of study. It must demonstrate that the candidate has technical competence in the field and has done research of an independent character. It must add to and modify what was previously known or present a significant interpretation of the subject based on original investigation.

Either at the time of the qualifying examination or later the candidate is required by the department to present the prospectus for the dissertation to a faculty committee. When this committee accepts the candidate’s dissertation plan, the dissertation adviser will transmit a Dissertation Topic Report (ORGS Form 2) to the Office of Research and Graduate Studies for inclusion in the candidate’s file.

**Dissertation Defense**

The defense is an examination administered by the student’s dissertation and related material.

The Dissertation Committee shall consist of 1) the major adviser, who will serve as chair; 2) at least two other full-time members of the candidate’s major department; and 3) at least one external reviewer who is either a faculty member outside the candidate’s department or, with the approval of the department chair and the graduate dean, a scholar not associated with the University. For all candidates the major adviser (or designate) must be a full-time member of the department. Faculty
members with joint appointments (excluding courtesy appointments) are considered internal members of the departments only and may not serve as outside members of the committee. The Dissertation Committee is appointed by the department chair or the director of graduate studies with the approval of the dean after the presentation of the prospectus, given well before the dissertation defense.

The examination will be conducted by the committee and by any other members of the faculty who care to attend as nonvoting members. The chair of the examining committee will set a date, hour and place for the examination that is agreeable to the committee members and the candidate, with notification at least a week in advance. Notice of the dissertation defense should be distributed to all department faculty, the dean of the college and the graduate dean. A unanimous vote of the committee is necessary for approval of the examination. Students who fail the examination may be given a second examination, at a time to be determined by the committee, but not later than one year after the initial examination. Those who fail the examination the second time are thereby disqualified for a degree. The examination report will be forwarded to the dean for certification of the candidate for graduation (ORGS Form 3).

**Preparing Dissertation for Submission**

The basic requirements for preparing the dissertation are outlined in the *Thesis/Dissertation Guide*, copies of which are available in the Office of Research and Graduate Studies and online at smu.edu/graduate.

The dissertation must be completed to the satisfaction of the student’s dissertation adviser and Dissertation Committee, and the Office of Research and Graduate Studies. Deadlines for the submission of dissertations are outlined at the beginning of each term. Upon successful completion of the dissertation defense, the half-title page must be signed by the Dissertation Committee. Students are responsible for all fees, including those for electronic publishing and microfilming.

In submitting a dissertation, the student grants permission to the director of libraries at SMU to make copies at the director’s discretion, upon the request of individuals or institutions.

**GRADUATE DEGREES**

The following table identifies graduate degrees awarded and departmental requirements with respect to entrance examinations, languages and theses.

<table>
<thead>
<tr>
<th>Field of Study</th>
<th>Degrees Offered</th>
<th>Language Requirement</th>
<th>Thesis/Dissertation Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>M.A. (en route to Ph.D.)</td>
<td>Proficiency in one language and statistics</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>Departmental examination in one language</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Medical Anthropology</td>
<td>M.A. (36 hours)</td>
<td>Individually prescribed</td>
<td>Prohibited</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>M.S. (30 hours)</td>
<td>Individually prescribed</td>
<td>Mandatory</td>
</tr>
<tr>
<td></td>
<td>M.A. (36 hours)</td>
<td>Individually prescribed</td>
<td>Prohibited</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>Individually prescribed</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Chemistry</td>
<td>M.S. (30 hours)</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Field of Study</td>
<td>Degrees Offered</td>
<td>Language Requirement</td>
<td>Thesis/Dissertation Requirement</td>
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<tr>
<td>Earth Sciences</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Geology or Geophysics</td>
<td>M.S. (30 hours)</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Applied Geophysics</td>
<td>M.S. (33 hours)</td>
<td>None</td>
<td>Optional</td>
</tr>
<tr>
<td>Geology or Geophysics</td>
<td>Ph.D.</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Economics</td>
<td>M.A. (30 hours)</td>
<td>None</td>
<td>Optional</td>
</tr>
<tr>
<td>Applied Economics</td>
<td>Ph.D.</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td></td>
<td>M.A. (36 hours)</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>M.A. (30 hours)</td>
<td>Credit for intermediate courses in one language or ETS examination</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Ph.D. (60 hours)</td>
<td>Proficiency in one language</td>
<td>Mandatory</td>
</tr>
<tr>
<td>History</td>
<td>M.A. (30 hours)</td>
<td>Test administered by the department</td>
<td>Mandatory</td>
</tr>
<tr>
<td></td>
<td>M.A. (36 hours)</td>
<td>Test administered by the department</td>
<td>Prohibited</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>Credit for intermediate courses in one language, or test approved by department</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comput &amp; Appl Math</td>
<td>M.S. (33 hours)</td>
<td>None</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Medieval Studies</td>
<td>M.A. (30 hours)</td>
<td>Competence, demonstrated by examination, in intermediate Latin and one foreign or</td>
<td>Mandatory</td>
</tr>
<tr>
<td></td>
<td></td>
<td>medieval language</td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>M.S. (30 hours)</td>
<td>None</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical</td>
<td>Ph.D. (70 hours)</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>M.A. (30 hours)</td>
<td>Competence in one language other than native tongue, demonstrated by examination</td>
<td>Mandatory</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>Competence in two foreign languages, demonstrated by examination</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Statistical Science</td>
<td>M.S. (30 hours)</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td></td>
<td>M.S. (36 hours)</td>
<td>None</td>
<td>Prohibited</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>None</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Graduate Certificate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Women’s &amp; Gender Studies</td>
<td>Certificate</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
GRADUATE RESIDENCE ACCOMMODATIONS

The Department of Residence Life and Student Housing operates two apartment residence halls designated for graduate students.

**Martin Hall**, an efficiency apartment hall, houses single graduate students, and married undergraduate students. Martin Hall also houses some senior undergraduates.

**Hawk Hall**, a one-bedroom-apartment facility, houses single graduate students, married students (graduate and undergraduate) with families and some senior undergraduates. Families with no more than two children may be housed in Hawk Hall. Also located in Hawk Hall is the SMU Preschool and Child Care Center.

**Special Housing Needs**

Students having special housing needs because of a disability should contact RLSH and the Office of Disability Accommodations and Success Strategies prior to submitting the housing application. Whenever possible, the housing staff will work with that student in adapting the facility to meet special needs.

**General Housing Information**

Each apartment is equipped with a telephone, local telephone service, voice mail system and wireless Ethernet connections to the University’s computer system. All residence halls are air-conditioned and some have individually climate-controlled rooms. Washing machines and dryers are located in all residence halls. Meal plans are not required in graduate halls.

**Applications for Residence**

New graduate students should submit the completed application and contract to RLSH with a check or money order for $100 made payable to Southern Methodist University for the nonrefundable housing deposit.

Priority of assignment is based on the date on which applications are received by RLSH. Notification of assignment will be made by RLSH. Rooms are contracted for the full academic year (fall and spring terms).

Rent for the fall term will be billed and is payable in advance for students who register before August 1, and rent for the spring term will be billed and is payable in advance for students who register before December 1. Students who enroll after these dates must pay at the time of enrollment.

Rent for the full academic year will be due and payable should a student move from the residence hall at any time during the school year. Accommodations for shorter periods are available only by special arrangement with the executive director of RLSH before acceptance of the housing contract.

For more information, students should visit [www.smu.edu/housing](http://www.smu.edu/housing) or contact the department: Department of Housing and Residence Life, Southern Methodist University, PO Box 750215, Dallas TX 75275-0215; phone 214-768-2407; fax 214-768-4005; housing@smu.edu.

RECREATIONAL SPORTS

**Dedman Center for Lifetime Sports**

Dedman Center for Lifetime Sports ([www.smu.edu/recsports](http://www.smu.edu/recsports)) is a facility designed for recreational sports and wellness. A 170,000-square-foot expansion and renovation was completed in 2006. The center provides racquetball courts; aerobic
studios; an indoor running track; basketball courts; indoor and outdoor sand 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.

### 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).

### 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.

### HEALTH SERVICES

#### SMU Memorial Health Center

www.smu.edu/healthcenter

The University’s health facilities, a fully accredited outpatient medical clinic, are located in the SMU Memorial Health Center. An outpatient primary care clinic, specialty clinics, pharmacy and lab/X-ray facilities occupy the first floor. Counseling and Psychiatric Services and the Center for Alcohol and Drug Abuse Prevention are located on the second floor.

**Outpatient Medical Services.** SMU provides a convenient, economical medical clinic for diagnosis and treatment of illness/injury, as well as for immunizations and continuation of treatment, such as allergy injections. The clinic is staffed by physicians, registered pharmacists, registered nurses, medical assistants, and lab and X-ray technologists. Physicians are available by appointment from 8:30 a.m. to 4 p.m., Monday through Friday. Students should visit the Health Center website at [smu.edu/healthcenter](http://smu.edu/healthcenter) for further information.

**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 call 911 or go to a hospital emergency room. Students should refer to the Health Center website ([smu.edu/healthcenter](http://smu.edu/healthcenter)) for hospital information and location of an urgent care facility.

**Costs.** Undergraduate and graduate students paying full fees (which include a health service fee) receive unlimited primary care physician visits at no charge, as well as all counseling services, at the Health Center for that term. Costs for specialized physician care, laboratory tests, X-rays, pharmaceuticals and supplies may be charged to the student’s account or paid at the time of the visit. Undergraduate and graduate students not paying full fees have the option to pay the health
service fee of $140 per term or $50 per visit, not to exceed $140 per term. Covered charges for Health Center treatment rendered to students enrolled in the Student Health Insurance Plan will be billed directly to the insurance company, after paying their co-pay. The Health Center files claims for SHIP only. Students who have other insurance are provided an itemized receipt upon request at the time of service. This receipt is adequate to file with the student’s private insurance company for reimbursement to the student.

**Mandatory Health Insurance Policy.** To ensure that students have appropriate health care coverage, SMU requires all domestic students, both undergraduate and graduate, taking nine or more credit hours to have health insurance through either an individual/family plan or the University-offered plan. All international students taking one or more credit hours must enroll in the University-offered plan unless they have a special waiver personally granted by the Health Center staff.

SMU’s mandatory policy requires those students with the enrollment status mentioned above to provide documentation of current insurance coverage or to enroll in the Student Health Insurance Plan by the drop/add date each term. Students can enroll in SHIP, after they have enrolled for classes, by selecting the “Health Insurance” button on the “Student Center” component of Access.SMU. A domestic student who already has private health insurance coverage must waive SHIP coverage to avoid automatic enrollment into the plan and thereby have the premium charge applied to his/her University account. Changes will not be permitted 30 days after the first day of the term. For more information and instructions on how to waive or elect SHIP coverage, students should visit [www.smu.edu/healthinsurance](http://www.smu.edu/healthinsurance).

Health insurance is separate from the student Health Center fees and is paid for independently.

**Pharmacy.** A complete pharmacy with registered pharmacists is open from 8:30 a.m. to 5 p.m., Monday through Friday. Many prescription plans are accepted.

**X-ray and Laboratory Services.** X-ray and laboratory tests are available for nominal fees. All X-rays are interpreted by a radiologist.

**Immunizations.** All students (undergraduate, graduate, part-time, full-time to include international and IEP/ESL 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 mumps, rubeola (red or regular measles) and rubella (German or three-day measles). These immunizations must be documented by a physician, public health record or school health record. Students will not be allowed to register without compliance. Students are encouraged to check their Access.SMU account for immunization status. Immunizations are available at the Health Center. Health history forms are available on the Health Center’s website.

**Note:** Effective January 1, 2010, new students living on or planning to live on college campuses in Texas must provide proof of meningitis vaccination at least 10 days prior to moving into campus housing. More information is available under Final Matriculation to the University in the Admission to the University section of this catalog. [This and previous paragraph replaced in addendum 11/14/2011.]

**Class Absence Due to Illness.** Students should schedule appointments with physicians at times when classes will not be missed. The Health Center does not
issue excuses from classes for illness. Students should refer to the Health Center website (smu.edu/healthcenter) for the Class Absence Policy.

**Notification of Parents.** Students are encouraged to call one or both parents when ill. Parents or guardians will be notified in cases of life-threatening illnesses. The Health Center staff may not speak to parents without the student’s permission.

**Health Service Records.** All health service records are confidential. A copy of medical records may be released to a physician only with a written release by the student. Records are not made available to parents, SMU administrators, faculty or staff without the student’s written consent.

**Counseling and Testing Services**

**Counseling and Psychiatric Services.** CAPS 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. 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. Any laboratory tests or pharmaceuticals ordered will be charged to the student. For more information regarding scheduling appointments, students should call 214-768-2277 between 8:30 a.m. and 5 p.m., Monday through Friday, or go to www.smu.edu/counseling.

**Testing Services.** Testing Services offers testing to the Dallas-area community. These services include on-campus administration of national testing programs such as the SAT, LSAT, GRE Subject and PRAXIS. Other testing offered includes CLEP tests and correspondence examinations for other universities. For additional information, students should call the center at 214-768-2269.

**Office for Alcohol and Drug Abuse Prevention.** This office provides 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. More information is available at www.smu.edu/liveresponsibly.

**Office of Health Education and Promotion.** This office serves as a resource for health information on campus. It promotes programs and activities that focus attention on health-related issues affecting college students. Students can get involved with health education on campus through the Peer Advising Network. For more information, students should call 214-768-2393 or visit www.smu.edu/healthcenter/healtheducation.

**CHILD CARE**

SMU provides a licensed child care center for children ages 1 month to 5 years on a space-available basis. For more information, students can contact the director of the center: SMU Preschool and Child Care Center, Southern Methodist University, PO Box 215, Dallas TX 75275-0215, 214-768-227; or visit www.smu.edu/childcare.

**DISABILITY ACCOMMODATIONS AND SUCCESS STRATEGIES**

Housed within the Altshuler Learning Enhancement Center, DASS offers comprehensive disability services for all SMU students with disabilities. Services include classroom accommodations and physical accessibility for all students with a learning disability and/or attention deficit hyperactivity disorder, as well as other
conditions such as physical, visual, hearing, medical or psychiatric disorders. For accommodations, it is the responsibility of the undergraduate and graduate students themselves to establish eligibility through this office. Students must provide 1) appropriate current documentation in keeping with SMU’s documentation guidelines, and 2) a request indicating what kind of assistance is being sought, along with contact information. More information is available at www.smu.edu/alec/dass.asp.

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 inculcation 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 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 SMU students, with the exception of graduate students enrolled in the schools of Law, Theology or Business, are subject to the jurisdiction of the Honor Code and as such are required to demonstrate an understanding of and to uphold the Honor Code (www.smu.edu/studentlife). In support of the Honor Code, the Honor Council has the responsibility to maintain and promote academic integrity. The Honor Council is composed of a minimum of 27 members selected through an application and interview process organized by the Honor Council Executive Board. Five faculty members, nominated by the Faculty Senate, also serve on the Honor Council.
Academic dishonesty includes plagiarism, cheating, academic sabotage, facilitating academic dishonesty and fabrication. Plagiarism is prohibited 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. Cheating is defined as intentionally using or attempting to use unauthorized materials, information or study aids in any academic exercise. Academic sabotage is defined as intentionally taking any action that negatively affects the academic work of another student. Facilitating academic dishonesty is defined as intentionally or knowingly helping or attempting to help another to violate any provision of the Honor Code. Fabrication is defined as intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

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 a quorum of four members of the Honor Council.

Any appeal of an action taken by the Honor Council shall be submitted to the University Conduct 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. As part of the Office of the Dean of Student Life, the Student Conduct and Community Standards Office (www.smu.edu/studentconduct) assists students in their personal development by providing a fair conduct process 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
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 students become more fully aware of the importance of responsibility for themselves and others. Anytime a student displays irresponsible behavior, that student will be subject to discipline.

Depending on the degree of misconduct, a student may be subject to sanctions ranging from a conduct 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 Office of the Dean of Student Life 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 fairness and due process for all students in the conduct process, the student is granted an impartial hearing and the right to appeal to the University Conduct 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 Office of the Dean of Student Life, third floor, Hughes-Trigg Student Center, or online at [smu.edu/studentlife](http://smu.edu/studentlife).
SMU LIBRARIES

Service to Southern Methodist University students, faculty and staff is the primary goal of all libraries at SMU. The libraries of the University contain more than three million volumes. The fully interactive Web-based Library Catalog system features access to bibliographic records of materials housed in all SMU libraries and hypertext links to other databases, digitized collections and relevant websites. All SMU libraries offer wireless Internet access.

SMU libraries rank first in total volumes held among non-ARL (Association of Research Libraries) universities in the United States. The SMU libraries comprise the largest private research library in Texas and rank third in the state in total volumes, after the University of Texas at Austin and Texas A&M University. SMU libraries are one of the greatest assets of the University.

The University’s library system is divided into a number of different units:

1. **Central University Libraries** (reporting to the Office of the Provost).
2. **Underwood Law Library** (reporting to Dedman School of Law).
3. **J.S. Bridwell Library** (reporting to Perkins School of Theology).
4. **Business Information Center** (reporting to Cox School of Business).

The Business Information Center

The MBA Business Information Center is located in room 150 of the Maguire Building. The mission of the business library is to provide the SMU community with authoritative business information, regardless of format; support the integration of information and technology into the curriculum; and act as a center for research and development for state-of-the-art information technology applications in the business education field. In support of this mission, students, faculty and staff have access to course-specific in-class instruction sessions, open enrollment research workshops and reference assistance from dedicated business librarians to enhance their use of current business news and financial, industry and market data from premier providers. The BIC offers the SMU community both quiet and group study areas; individual and group computer areas consisting of more than 70 computer workstations; a multimedia studio; a group presentation practice room; a periodicals area; facility-wide wireless access; more than 150 electronic resources; and a variety of print resources, including the Hillcrest Foundation International Resource Library, the Edwin L. Cox Business Leadership Center Resource Collection, the Energy Institute Resource Collection and the MBA Career Management Center Library. Librarians are available all hours that the BIC is open, providing library services in person and virtually via email and telephone.

Bridwell Library

Bridwell Library of the Perkins School of Theology is the University’s principal research resource for the fields of theology and religious studies. It offers a collection of more than 350,000 volumes and 1,200 current periodical titles, and it provides access to a wide array of online full-text journals and databases. Among the library’s special collections are significant holdings in early printing, English and American Methodism, theology, religion, and the book arts. The interpretation of these collections is accomplished variously through lectures, publications and exhibitions. Reference librarians are available to help students discover and use the many resources of Bridwell Library.
Underwood Law Library

Underwood Law Library, one of the 30 largest law libraries in the country and the largest private law library in the Southwest, houses more than 640,000 volumes and primarily serves the faculty and students of the Dedman School of Law. The collection includes state and federal legislative, judicial and administrative materials; law periodicals; law treatises; U.S., international and foreign documents; and U.S. government documents relating to the legal profession. Strengths of the collection are in taxation, securities, corporate law, labor law, air and space law, commercial and banking law, constitutional law, and law and medicine. The Kay and Ray Hutchison Legal Resource Learning Center in the Underwood Law Library is a computer learning lab located on the third floor.

Central University Libraries

The largest of the SMU library units is Central University Libraries with holdings of more than 2.1 million volumes. CUL comprises the Fondren Library Center, the Hamon Arts Library, the DeGolyer Library and the University Archives, the Institute for the Study of Earth and Man Reading Room, and the Emily C. Norwich Center for Digital Services. CUL also supports SMU programs at the SMU-in-Plano and SMU-in-Taos campuses.

Fondren Library Center, with nearly two million volumes of books, government publications and bound journals, serves students and faculty in the areas of humanities, social sciences, business, education, science, and engineering. Its Information Commons provides a single location within the library where students can use library books and online resources, as well as the latest computer software and technology, to prepare their assignments. Fondren Library is a selective depository for government information resources and has large electronic collections of retrospective periodicals and special collections in the humanities, sciences, and social sciences. It houses the University’s map collection, which includes nearly 260,000 topographic and geologic maps and aerial photographs, as well as the DeGolyer Earth Sciences collection of more than 15,000 geological volumes.

Strengths of the Fondren Library include, but are not limited to, classical studies, late 18th- and early 19th-century English literature, American history, Texas history, contemporary biography and literature, anthropology, political science, economics, and other social sciences. Fondren Library also provides reading materials placed on reserve by classroom faculty and access to holdings from other libraries nationwide via interlibrary loan.

The Hamon Arts Library, located in the Owen Arts Center of the Meadows School of the Arts, serves students and faculty in the areas of visual art, art history, cinema, communications, dance, music and theatre. With more than 180,000 volumes of books, sound recordings and video recordings, the library’s collections support the Meadows curriculum and are particularly strong in European and American arts. The library also provides conference room facilities; group audio-visual study and presentation rooms; and public computers for research, study and arts-specific software projects. The following two special collections units are administered by Hamon Arts Library.

The focus of Jerry Bywaters Special Collections is on the cultural history of the American Southwest. Visual arts holdings include archival materials and works
of art on paper documenting the careers of artists such as Jerry Bywaters, Otis and Velma Davis Dozier, E.G. Eisenlohr, Octavio Medellin, Olin Travis, and Janet Turner as well as correspondence of 19th-century French painter Rosa Bonheur. Performing arts holdings include two Japanese gigaku masks dating from the seventh to the 10th centuries, the papers of Oscar-winning actress Greer Garson, and materials documenting the careers of longtime SMU music faculty members Paul van Katwijk and Lloyd Pfautsch.

The G. William Jones Film and Video Collection, founded in 1970, holds more than 10,000 films and videos on a wide array of subjects and in all formats. The Jones Collection is best known for its Tyler, Texas, Black Film Collection and for the Sulphur Springs Collection of prenickelodeon films.

DeGolyer Library is a noncirculating special collections branch of CUL that contains more than 120,000 volumes. In addition to rare books, it holds more than 2 million manuscripts, 750,000 photographs and negatives, 2,500 newspaper and periodical titles, 2,000 maps, and an extensive collection of ephemera that includes the largest collection of Texas bank notes in the country. The DeGolyer Library is open to all students and faculty. Great strengths of the DeGolyer Library include early voyages and travels, especially those accounts bearing on the European discovery and exploration of the New World. The collection of Western Americana is numbered among the finest in the country. For example, the Lawrence T. Jones III Texas Photography Collection is an unrivaled source of over 5,000 early images of the land and people of the state, from the 1840s to the 1920s. The library also has exceptionally well-developed collections in the fields of business history, such as the JCPenney archives and the Belo archives (parent company of the Dallas Morning News and other media outlets). Transportation history, in particular the history of railroads, is another great strength of the library. DeGolyer’s holdings in the history of science and technology, which include the Texas Instruments archives, also have much to offer the researcher. Literary collections cover a respectable range of English and American authors and literary genres, from a 16th-century edition of Chaucer’s Canterbury Tales to dime novels and comic books. Literary manuscripts include the papers of playwright Horton Foote and the archives of the Southwest Review, SMU’s literary quarterly. DeGolyer collections also afford numerous opportunities for interdisciplinary research in such fields as American studies, Southwestern studies, women’s studies, popular culture, the history of photography, and the history of the book.

The University Archives, part of the DeGolyer Library, is the official repository for SMU administrative and historical records of the University. The archives contain manuscripts, photographs, publications, records, and artifacts documenting the establishment and growth of the University. SMU administrators, faculty, local historians and media representatives are its principal users, but students and visiting scholars often use its materials for a variety of research projects.

The ISEM Reading Room, with over 10,000 volumes, serves students and faculty of the Institute for the Study of Earth and Man. It contains a wealth of information relating to anthropology and geological and geophysical sciences.

The Norwick Center for Digital Services in CUL encompasses student multimedia and collaborative technology areas, digitization/production services, and a screening room. The Student Multimedia Center provides students with access to
high-end computers, software, collaborative spaces and staff assistance to develop a
variety of digital projects such as DVDs and Web video, digital portfolios, and other
media-intensive projects. The Library Digital Projects Office focuses on digitizing
library collections for preservation and increased access. The screening room allows
for video screenings and computer projection for instruction and training.

LABORATORIES AND RESEARCH FACILITIES

The University provides many laboratories and much equipment for courses in
accounting; anthropology; art; biology; chemistry; languages; earth sciences;
communication arts; psychology; physics; health and physical education; dance;
music; theatre; statistics; and civil, computer, electrical, environmental and
mechanical engineering. (Other University facilities not listed below are described in
sections for the individual schools.)

The **Lyle School of Engineering** is home to several state-of-the-art laboratories
and research facilities. For more information, see the Lyle School of Engineering
Departmental Facilities and Computer Facilities sections in this catalog.

The teaching laboratories of the departments of Biological Sciences, Chemistry,
Earth Sciences and Physics are housed in the **Fondren Science Building** and in the
**Dedman Life Sciences Building**. Virtually all teaching laboratories and support
facilities in the buildings have been remodeled and updated.

Students have access to a wide array of specialized instrumentation and labor-
atory equipment fundamental to studies in the natural sciences, including
spectrophotometers, high-performance liquid chromatographs, scintillation counter,
fluorescence-activated cell sorter, scanning laser confocal microscope, electron
resonance spectrometer, X-ray diffractometers, mass spectrometers and an atomic
absorption spectrometer. Advanced undergraduate research is also supported by
tissue culture and animal care facilities, as well as through several departmental
computer laboratories.

**SMU-in-Taos, Fort Burgwin**, is located 10 miles south of Taos, New Mexico, at an
elevation of 7,500 feet. The facility includes classrooms, laboratories, offices, a
computer center and a library, as well as living accommodations for students and
faculty. The Fort Burgwin archaeology curation facility houses more than one
million archaeological specimens from research projects conducted by SMU faculty
and students. Northern New Mexico offers a multiplicity of research opportunities
for both natural and social scientists. Pot Creek Pueblo, located on the fort’s
property, is one of the largest prehistoric archaeological sites in the Taos region.

The **N.L. Heroy Science Hall** houses the departments of Anthropology, Earth
Sciences, Sociology and Statistical Sciences, as well as the Institute for the Study of
Earth and Man.

The **Institute for the Study of Earth and Man** was created in 1966 by a gift from
W.B. Heroy, Sr. Its purpose is to support research at the interface of humans, Earth
and the environment.

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

The **Dallas Seismological Observatory**, established by the Dallas Geophysical
Society, is maintained and operated by the University and now monitors remote
seismic and infrasound stations in Southwest Texas near Lajitas, seismically one
of the world’s quietest regions. The Lajitas array is used to test technology
designed to detect small earthquakes from great distances. In addition to the Lajitas seismic array, SMU operates seismic and infrasound arrays at Mina, Nevada; Grenada, Mississippi; and overseas locations. Data collected by the observatory are available to the faculty and advanced students who wish to undertake basic research in seismology, tectonics or infrasound.

The **Ellis W. Shuler Museum of Paleontology** is a research museum affording opportunities for advanced study of fossil faunas and floras and their climatic and paleoecologic significance. The collection, which specializes in vertebrate paleontology, includes more than 150,000 fossils from the United States, Central America and northeastern Africa.

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

The **Geothermal Laboratory** is the focus of an extensive program of research in the thermal field of the earth. Characterization and location of geothermal energy resources and research in the thermal fields of sedimentary basins are special topics of concentration. Also, mapping of the temperatures and heat flow of the crust have been completed for North America and are part of the google.org/egs website. The research is worldwide in scope. Specialized equipment for the measurement of thermal conductivity of rocks and for the measurement of accurate, precise temperature logs in deep wells is available for research purposes. Services are provided to other institutions and research centers on a contractual basis.

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

The **Electron Microprobe Laboratory** contains a fully automated JEOL 733 electron microprobe with four wavelength dispersive X-ray spectrometers, a Link eXL energy dispersive X-ray and associated sample preparation equipment. It is available on a regular basis for various research projects at the Institute for the Study of Earth and Man, the University, and other research institutions.

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

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

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

**MUSEUM**

The **Meadows Museum**, founded by the late philanthropist Algur H. Meadows and located at 5900 Bishop Boulevard, houses one of the finest and most comprehensive collections of Spanish art outside of Spain, as well as selected masterpieces of modern European sculpture, from Rodin and Maillol to David Smith and Claes Oldenburg. The permanent collection of 670 objects includes paintings, sculpture, decorative arts and works on paper from the Middle Ages to the present. Artists represented include El Greco, Velázquez, Ribera, Zurbarán, Murillo, Goya, Picasso and Miró. The Meadows Museum hosts a regular program of loan exhibitions each year in its temporary exhibition galleries and sponsors an active program of public lectures, tours, films, concerts and symposia, as well as children’s art programs and family days throughout the year. Museum collections are often used by SMU faculty in their courses. The museum membership program includes exhibition previews, tours of private collections and opportunities for travel. Docent tours of the collection are available to school, University and adult groups. The Meadows Museum, in addition to its collection, houses a museum store and special event rooms. Additional information is available at [www.meadowsmuseumdallas.org](http://www.meadowsmuseumdallas.org).
The Office of Information Technology, located on the fourth floor of the Blanton Student Services Building, is responsible for providing computing and communications services in support of academic and administrative functions for students, faculty, staff, alumni and patrons of the University. These services include an SMU email account, access to enrollment and financial data online, Internet access both on and off campus, telephone services, Web-based services, technical support, and a variety of software and hardware discounts.

SMU offers high-speed network connections throughout campus. Students can take advantage of both wired and wireless connections throughout all areas of the residence halls. Wireless coverage also extends throughout the campus in most classrooms, libraries, common areas and several outdoor locations. In addition to on-campus Internet connections, OIT provides off-campus connections through dial-up access and Virtual Private Networks.

All students receive an SMU email account, which remains active throughout their enrollment at the University. The email account may be accessed online via webmail.smu.edu. In addition, students have access to a variety of Web-based services, e.g., Access.SMU, personal Web space, network storage space and academic applications such as the Blackboard Course Management System. All academic information, including grade history, financial information, transcripts and class registration, is available through the Access.SMU system.

The IT Help Desk provides technical support for most computing issues from 7:30 a.m. to 6:30 p.m., Monday through Thursday and from 7:30 a.m. to 5:30 p.m. on Friday. Both phone and in-house support is available for on- and off-campus connectivity issues. The Help Desk also offers phone support for the Microsoft Office Suite and other common applications.

Although most students have their own computers, there are a number of public computer labs available for use. Labs are located in each of the residence halls and throughout the campus libraries. Almost all of the labs contain both Mac and PC workstations and support a variety of programs. There is also 24-hour computer access available in the Hughes-Trigg Student Center.

The Computer Corner by HiEd, located in the Hughes-Trigg Student Center, is the on-campus computer store. It offers a number of discounts on hardware and other peripherals. Students also may take advantage of software discounts on Microsoft and Adobe applications through a campus license agreement. Computer repair is offered on a charge-per-service basis.

IT also provides on-campus telephone and voicemail services for on campus residents.

For additional information on services provided by IT, students should visit www.smu.edu/help or call the Help Desk: 214-768-HELP (214-768-4357).
The Guildhall at SMU is the first digital game development program to be based at a research university. The program has been accredited by the Southern Association of Colleges and Schools. It offers an 18-month program that prepares students to work in the digital games development industry. The program has three tracks: art creation, software development and level design. Students who successfully complete the program will receive a certificate from the Hart eCenter at SMU.

INTERNATIONAL STUDENTS

The International Center

The International Center serves Southern Methodist University and international students/scholars and their families by engaging in the following activities:
1) advising all international students/scholars on visa compliance requirements,
2) advising schools and departments within the University on compliance requirements, 3) reporting to the federal government via the SEVIS system, 4) managing and facilitating education abroad programs, 5) supporting the Office of Development and Alumni Affairs by working with SMU alumni abroad, and 6) identifying and fostering mutually beneficial institutional partnerships.

The center strives to carry out these activities in a professional manner and is committed to operating in the best interests of SMU and in the best interests of the international constituencies it serves.

ENGLISH AS A SECOND LANGUAGE PROGRAM

John E. Wheeler, Director

Students whose first language is not English may encounter special challenges as they strive to function efficiently in the unfamiliar culture of an American university setting. The Office of General Education offers the following ESL resources to students from all schools and departments of SMU.

The Courses (ESL)

1001. ESL Communication Skills. The goal of this course is to improve ESL students’ oral and aural interactive skills in speaking, giving presentations, pronunciation, listening and American idiomatic usage so that they may become more participatory in their classes and integrate more readily with their native English-speaking peers. It is designed to meet the needs of both undergraduate and graduate students who may be fully competent in their field of study yet require specialized training in order to effectively communicate in an American classroom setting. The course is noncredit and no-fee, and is transcripted as pass or fail. ESL Program approval is required, and students may apply online at smu.edu/esl.

1002. ESL Communication Skills II. Building on skills developed in ESL 1001, students make use of their knowledge and practice to explore various aspects of American studies. In addition to speaking and presentation skills, reading and writing are also exploited as a means for students to gain a deeper understanding of American culture, customs, attitudes and idiomatic use of the language. The course is noncredit and no-fee, and is transcripted as pass or fail. ESL 1001 is recommended as a precursor but is not a prerequisite. ESL Program approval is required, and students may apply online at smu.edu/esl.

1300, 1301, 1302. ESL Rhetoric. The ESL sequence of first-year writing aims to provide students with the tools they will need to successfully complete writing assignments required of them during their University coursework. The ultimate goal of ESL Rhetoric is to bring students’ analytical reading and writing skills in line with the standards expected of their native
English-speaking peers. In addition to the principles of effective writing taught in regular rhetoric classes, ESL Rhetoric students are given extra practice in vocabulary development, grammar skills, standard American English pronunciation and conversational fluency. The 1302 courses are specially designed around themes that are pertinent to the realities and experiences of non-native speakers of English. ESL sections of rhetoric grant students the same amount of credit as do regular rhetoric classes, and “ESL” will not appear on the transcript. ESL Program approval is required.

20XX. Intensive English Program (IEP). All 2000-level courses are exclusive to IEP. This multilevel, yearlong program is designed to prepare students and professionals for academic success at the university level. The course of study consists of English for Academic Purposes, TOEFL-related skills and American culture. It is open to currently enrolled and newly incoming students, as well as to those not affiliated with SMU. On-campus housing and meals are available during the six-week summer term. This is a noncredit, nontranscripted program, and separate tuition fees will be charged. ESL Program approval is required, and the application package may be downloaded via the IEP link at smu.edu/esl.

3001. Advanced Grammar for Writers. This course helps students develop their grammar and writing skills within the context of academic readings. Problem areas of English grammar and style are explored through periodic assignments, research documentation methods, and a final research project. The course is free of charge, noncredit bearing, and will appear on the transcript as pass or fail. ESL Program approval is required, and students may apply online at smu.edu/esl.

3002. Advanced Academic Writing. Building on principles of grammar and style covered in ESL 3001, this course helps students further improve the writing skills needed for their particular academic careers using academic texts as a basis for out-of-class writing assignments and a final research project. The course is free of charge, noncredit bearing, and will appear on the transcript as pass or fail. ESL Program approval is required, and students may apply online at smu.edu/esl.

4001. ESL Pronunciation Skills. Students improve their pronunciation by focusing on sentence stress, rhythm, intonation, and body language while learning to mimic American speech patterns. With the instructor’s assistance and extensive individual feedback, students develop personal strategies and exercises to become more aware of their own weaknesses. The course is free of charge, noncredit bearing, and will appear on the transcript as pass or fail. ESL Program approval is required, and students may apply online at smu.edu/esl.

SMU-IN-PLANO

In the fall of 1997, SMU opened a campus in Plano’s Legacy Business Park and expanded its reach into North Texas. The journey of SMU-in-Plano began with a few well-defined goals: 1) to extend SMU’s resources to meet the educational needs of residents in rapidly growing Collin County and beyond, 2) to make it more convenient for working professionals to enroll in graduate-level programs necessary to advance their careers, and 3) to collaborate with area businesses by offering programs to serve the training needs of their employees, as well as to provide corporate meeting space.

SMU-in-Plano serves more than 800 adult students each year (excluding enrollment in noncredit courses) through a variety of full-time, evening and weekend programs leading to Master’s degrees and/or professional certificates in business administration, counseling, dispute resolution, liberal studies, education and learning therapies, engineering, and video game technology (The Guildhall at SMU). During the summer, nearly 2,000 children participate in a variety of programs designed to enhance their academic skills. The campus also provides important outreach services to the surrounding Collin County communities; these services include the Center for Dispute Resolution and Conflict Management, the
Diagnostic Center for Dyslexia and Related Disorders, and the Center for Family Counseling.

Conveniently located about one mile south of the intersection of HWY 121 and the Dallas North Toll Road, SMU-in-Plano sits in the shadows of the international corporate headquarters of Hewlett Packard, Frito Lay, JCPenney, Pizza Hut and several others. Originally the training facility for EDS (now HP), the campus is set on 16 landscaped acres and consists of four buildings with close to 200,000 square feet of classroom space. An additional nine acres adjacent to the facility gives SMU-in-Plano room to grow in the future.

More information is available online at smu.edu/plano or through the SMU-in-Plano office: 5236 Tennyson Parkway, Plano TX 75024; 972-473-3400.

SMU-IN-TAOS

The University maintains an academic campus at Fort Burgwin, located 10 miles southeast of Taos, New Mexico. SMU-in-Taos is open for summer study each year, offering courses in the humanities, natural and social sciences, business, performing and studio arts, as well as archaeological research.

Students are housed in small residences called casitas. Each residence has separate dorm rooms, complete lavatory and shower facilities, and a large study area with fireplace. Classrooms, offices, an auditorium, dining hall, library, computer lab and laundry facilities also are located on campus.

The campus is home to both Pot Creek Pueblo and historic Fort Burgwin. Pot Creek Pueblo, one of the largest prehistoric sites in the northern Rio Grande Valley, is located on the property. This site is one of the ancestral homes of modern-day Taos and Picuris pueblos, and was occupied from A.D. 1250 to 1350.

Historic Fort Burgwin was originally established in 1852. The fort served many purposes, chief among them to protect area settlers, prior to its abandonment in 1860, just before the Civil War. Reconstructed, the fort now serves as office and classroom space for campus academic programs.

Three summer terms are regularly offered in Taos: a May term, June term and August term. May and August are short, intense terms in which students may take up to four credit hours. The June term is a longer, more traditional summer term that allows students to take up to nine hours of coursework. Course offerings vary year-to-year and are designed to be relevant to the Southwest. Courses are heavily field trip oriented to take advantage of the campus’s proximity to important northern New Mexico cultural sites. A full 15–18 credit fall term is also offered. Students can take courses on the Taos campus during the fall term, with an emphasis on curricular offerings for premajor (second-year) SMU students. A full 15–18 credit fall term will also be offered starting in fall 2012. Students can take courses on the Taos campus during the fall term, with an emphasis on curricular offerings from many different departments across the University.

Literature describing the campus and its programs is available from the SMU-in-Taos Office, Southern Methodist University, PO Box 750145, Dallas TX 75275; 214-768-3657. Course descriptions and additional information can be found at www.smu.edu/taos or can be obtained via email (smutaos@smu.edu).
OAK RIDGE ASSOCIATED UNIVERSITIES
Since 1953, students and faculty of Southern Methodist University have benefited from its membership in Oak Ridge Associated Universities. ORAU is a consortium of colleges and universities and a management and operating contractor for the U.S. Department of Energy located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (the U.S. Department of Energy facility that ORAU operates), undergraduates, graduates, postgraduates and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines, including business, Earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry and mathematics.

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

For more information about ORAU and its programs, students should contact Dr. James E. Quick, ORAU councilor for SMU, 214-768-4345, or Monnie E. Champion, ORAU corporate secretary, at 423-576-3306; or visit the ORAU website at orau.org.
Southern Methodist University is pleased to provide information regarding academic programs, enrollment, financial aid, public safety, athletics and services for persons with disabilities. Students also may obtain paper copies of this information by contacting the appropriate office listed below. Disclosure of this information is pursuant to requirements of the Higher Education Act and the Campus Security Act. More information is available at www.smu.edu/srk.

1. Academic Programs: www.smu.edu/srk/academics
   Provost Office, Perkins Administration Building, Room 219
   214-768-3219
   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: www.smu.edu/srk/enrollment
   Registrar, Blanton Student Services Building, Room 101
   214-768-3417
   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 governs SMU’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: www.smu.edu/srk/finaid
   Director of Financial Aid, Blanton Student Services Building, Room 212
   214-768-3417
   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 Direct Loan or Federal Direct Perkins 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/Bursar:** [www.smu.edu/srk](http://www.smu.edu/srk); [www.smu.edu/bursar](http://www.smu.edu/bursar)
   University Bursar, Blanton Student Services Building, Room 212
   214-768-3417
   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. **DASS:** [www.smu.edu/alec/dass](http://www.smu.edu/alec/dass)
   Disability Accommodations and Success Strategies
   Altshuler Learning Enhancement Center
   214-768-1470
   a. Description of the process for establishing eligibility for services and documentation guidelines.
   b. Listings of the various on- and off-campus resources.
   c. Discussions of transitioning to postsecondary education.
   d. Tips for faculty on teaching and making accommodations.

6. **Athletics:** [www.smu.edu/srk/athletics](http://www.smu.edu/srk/athletics)
   Associate Athletic Director for Student-Athlete Services, 316 Loyd Center
   214-768-1650
   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 Police:** [www.smu.edu/srk](http://www.smu.edu/srk); [www.smu.edu/pd](http://www.smu.edu/pd)
   SMU Police Department, Patterson Hall
   214-768-1582
   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 website at [smu.edu/srk](http://smu.edu/srk).
ANTHROPOLOGY

Professor David Meltzer, Department Chair


Degree of Master of Arts in Medical Anthropology

The medical anthropology program is a training program in applied anthropology for students seeking involvement in health care agencies, hospitals, clinics and other health delivery organizations.

Degree Requirements

Candidates must complete 36 term hours of academic work. The following are required courses: ANTH 5336, 6343 (for which 5336 is prerequisite), 5344 and 6353. ANTH 7333 Data Analysis is strongly recommended. The additional hours must be in courses related to applied training in medical anthropology or other courses focusing on health-related anthropological issues.

Degree of Doctor of Philosophy

The Ph.D. program in anthropology offers specializations in archaeology and in cultural anthropology (with concentrations in medical anthropology and globalization and international development).

Degree Requirements

The Ph.D. degree in anthropology carries the following requirements:

1. Students must complete a minimum of 54 hours of approved graduate coursework at SMU, including six hours of dissertation credit. Up to 24 hours may be waived for advanced courses taken elsewhere. In addition, students may test out of advanced courses based on prior graduate-level experiences. The following courses are required for the Ph.D. program in cultural anthropology: ANTH 5334, 5335, 5344, 6034, 6302 (or other statistics course; incoming graduate students may petition the faculty for a waiver if they have completed statistics in their undergraduate career, with a grade of B or higher, and if the faculty approve the syllabi) 6320, 7333, 7341, 7342, 7351. Additional hours will pertain to specializations in medical anthropology or globalization and international development. The following courses are required for the archaeology program: ANTH 5033, 5334, 5335, 6033, 6034, 6301, 6332, 6337, 6342, 7313, 7317.

2. The M.A. degree en route to the Ph.D. will be awarded to students who are accepted into the graduate program and who receive a “low pass” or higher on the general M.A. examination in their subfield given at the end of two years’ coursework (36 hours). However, only students who achieve a “pass” or higher on this examination may advance into the Ph.D. program.

3. Students must satisfy all curricular requirements as specified by the department faculty. For details, see the department “Redbook” (also available on the Department of Anthropology website at smu.edu/anthro).

4. Students must demonstrate an ability to function proficiently in one or more foreign languages selected from among the following: French, German, Russian, Spanish or substitute languages approved by the department.
5. Students must demonstrate a satisfactory knowledge of analytical methods (quantitative or qualitative, as appropriate).
6. Students must pass a Ph.D. qualifying examination, including an oral defense of a dissertation proposal in their subfield.
7. Students must write and make a successful defense of a dissertation. Degree candidates may concentrate in any subfield except physical anthropology.

The Courses (ANTH)

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

5334. History of Anthropology, Part One. Analytical history of anthropology from the classic period to the 20th century. More than just what happened when, this course explains the content and development of theory, method, and interpretation.

5335. History of Anthropology, Part Two. Traces the theoretical developments in ethnology and archaeology from 1960 to the present, with intense readings and a focus on the potential utility of theoretical coherence in the discipline. Prerequisite: 18 hours of anthropology.

5336. Anthropology and Medicine. Cross-cultural study of the etiology, diagnosis and treatment of disease. Curers and patients. The life cycle and aging. Prerequisite: ANTH 2301 or 3301 or permission of the instructor.

5344. Research Methods in Ethnology. Examination of methodologies and techniques appropriate for different types of ethnological research.

5355. Seminar in the Southwest. This course focuses on the development of archaeology in the Southwest, addressing the impact of early archaeological finds, the development of museums and tourism, the founding of national monuments and field schools, and the changing role of Native Americans.

5359 (ENGL 5371). 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.

5681. Field Methods in Archaeology. Methods of excavation, recording and interpretation used in archaeological research. Offered at Fort Burgwin Research Center, New Mexico. Summer only.

6033. 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.

6034. Teaching Seminar.

6049. Graduate Full-Time Status. For students not yet advanced to candidacy.

6156. Research in Anthropology.

6256. Research in Anthropology.

6300. 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.

6301. Principles of Archaeology. An advanced seminar course dealing with the fundamentals of modern archaeology.

6302. Statistics in Anthropology. An introductory graduate-level course describing the specific use of quantitative and statistical methods in the subdisciplines of archaeology and cultural anthropology.

6303. Political Economy of Health. Explores topics in health and healing from a political economy perspective. Addresses social and economic factors influencing culture change and health and healing practices within a society. Examines health inequities around the globe.
6304. Migration, Ethnicity and Nationalism. Examines three interrelated topics: migration, ethnicity and nationalism. Focuses on major theoretical positions and on specific ethnographic cases.

6305. 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 educational policy.

6306. Anthropology and Education. The anthropological approach to the study of schools and how an anthropological framework can provide insight into the nature of education and classroom interaction.

6307. Seminar in International Health. An overview of issues in international health, with a focus on contributions of anthropology and anthropologists to international public health issues.


6309. Human Rights, Indigenous Peoples, and Nation States. An examination of human rights issues among contemporary indigenous peoples, especially the impact on their cultures and societies from governmental and nongovernmental organizations, large-scale development programs, and global tourism.

6310. The Prehistory of the American Southwest. Coverage of current theoretical and research topics in the prehistory of the American Southwest, including early human occupation, sedentariness, community organization, and regional abandonments.

6311. Applied Linguistics. The use of insights and techniques from linguistics in achieving practical goals, particularly in the field of education, with special emphasis on bilingual education and the teaching of reading.

6312, 6317. Advanced Seminar in Ethnology I, II. Varying topics.

6314. Archaeology of the American Southeast. Twelve thousand years of prehistory from different perspectives, including cultural evolution, social and ideological subsystems, and cultural parallels to Mexico.

6315, 6316. Regional Ethnography. Worldwide exploration of ethnography, exploring similarities and differences across time and space. Course prepares students to write their own regional papers in preparation for their qualifying exams. Prerequisites: 2nd- or 3rd-year graduate status, or permission of instructor.

6323. Linguistic Analysis. The techniques needed for linguistic fieldwork: phonological, morphological and syntactic analysis. Prepares students to work with unwritten languages and in urban speech communities.

6324. Archaeology of the Lower/Middle Pleistocene. Survey of human cultural remains within their contemporary environments, between about 2.6 million years ago and the last Ice Age onset about 70,000 years ago. Covers latest finds from Africa, Europe, and Asia.

6325. Upper Pleistocene Prehistory. Examination of cultural development in the Old World from the onset of Würm to the end of the Pleistocene. Emphasis on adaptive strategies and systematics of such studies.

6326. Post-Pleistocene Adaptations. Provides the background of major cultural change following the end of the last glacial period by examining archaeological and related literature from the environmental sciences.
6337. Origins of Complex Society. Surveys the archaeological evidence for the initial rise of civilization. Places emphasis on the major facts of cultural history, the archaeological problems peculiar to investigation of large-scale societies, and cross-cultural and evolutionary interpretations of the general phenomenon of preindustrial civilization.

6338. Paleolithic Archaeology. Surveys the evidence for the origins and dispersal of stone tool-using hunter–gatherers from Africa into Europe, Asia, and Australia up to the end of the last Ice Age.

6339. Neolithic Archaeology. Surveys the evidence for the origins and dispersal of early farming technology and social organization from the Near East into mainly Europe, but also Africa and Asia, up to the introduction of metalworking.


6343. Health and Medical Systems. Systems analysis of traditional, popular, and scientific medical practices. Examination of medical bureaucracies and the relationship of health care to other social institutions.


6346. Environmental Anthropology and Development. Analyzes the processes of globalization from the perspective of environmental anthropology and development.

6347. Seminar in Mesoamerican Ethnology. Provides an understanding of contemporary Mesoamerica by examining the literature and field data from anthropological and interdisciplinary viewpoints.

6351, 6352, 6353, 6354, 6355. Research in Anthropology.

6357. An Introduction to Statistics in Archaeology. An introductory graduate-level course describing the specific use of quantitative and statistical methods in the subfield of archaeology.

6363. Transforming Local Communities in a Global Age. Examination of local communities in light of theories about local/global relations. Uses case studies to consider how global issues transform local community practices in the United States and elsewhere.

6367. Comparative Peasant Society. An examination of economic and social institutions of contemporary peasant societies with special focus on the changes they are undergoing in the 21st century.

6368. North American Archaeology. Prehistory from the peopling of the New World through initial contacts with European civilization. Regional sequences and ecological changes.

6369. South American Archaeology. Archaeology and related ethnological data of South America from Paleoindians at 13,000 B.P. through the Inca State with a primary focus on the Central Andean sequence.


6384. 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).

6385. Coastal and Aquatic Archaeology. Seminar on the use of coastlines, oceans, rivers, marshes, lakes and islands throughout the human past.

6386. The Archaeology of Gender and Sexuality. This course explores how and why archaeologists study gender and sexual identities of the past and how they detect the diversity in these institutions across cultures through time.

6390, 6391. Current Issues in Anthropology. Seminar on selected topics.

6398, 6399. Thesis.

7000. Research.
7312. Archaeology of Mesoamerica. Seminar on archaeological evidence for prehistoric civilization in Mexico.


7317. Archaeological Research Strategies. An examination of the logistics and strategies used in project development and fieldwork through project completion. Emphasis is upon individual student problems.

7318. Late Pleistocene Prehistory of North America. Seminar on the late Pleistocene human occupation of North America from the time of initial colonization, with an emphasis on paleoclimates, paleoenvironments, and human adaptations.

7321. Ceramic Analysis for Archaeologists. Examination of procedures for analyzing ceramic artifacts, with special attention to problems of style, typology, dating and provenience.

7333. Data Analysis. Explores various methods of data analysis using the students' data sets or those of a member of the faculty. Combines lecture and discussion with hands-on applications. Prerequisites: ANTH 5344, 6302 (or statistics equivalent) or permission of the instructor.

7341. Current Anthropological Literature. Varied readings of current books and journal articles to explore dimensions of anthropological research and representation as well as how theory and data are integrated into well-formed written arguments.

7342. Seminar in Social Organization. Intensive investigation of the statics and dynamics of both social organization and social structure in various populations across the globe.

7351. Research Strategies in Ethnology. Consideration of the theoretical and practical aspects of fieldwork: preparation for research, conduct in the field, and data analysis.

8049. Graduate Full-Time Status. For students who have passed doctoral qualifying examinations.

8100. Dissertation Research, Ph.D. Candidates.

8105. Research for Graduate Students. For graduate students who have finished their coursework.

8200. Dissertation Research, Ph.D. Candidates.

8398, 8399, 8698, 6899. Dissertation Research, Ph.D. Candidates.

BIOLOGICAL SCIENCES

Professor Steven Vik, Department Chair


Admission Requirements

In addition to meeting the minimum requirements described by the Office of Research and Graduate Studies, an applicant’s preparation should include six term hours of calculus or statistics, 16 term hours of chemistry (including eight term hours of organic chemistry) and at least four advanced courses in biology. Applicants are required to take the GRE graduate school admission test. Three letters of recommendation from individuals who know the candidate well and can speak to the candidate’s ability for graduate study should be submitted before the candidate is admitted to the program.

Good Standing

A student must maintain a B average (3.000 on a 4.000 scale) and receive no more than two grades at or below the grade of C. Failure to meet these requirements will result in either probationary status or in dismissal from graduate study. Enrollment
in graduate seminar is required of students each term during their first two years in residence. Courses in biochemistry and molecular biology are also required of most beginning students.

Requirements with respect to proficiency in foreign language, computer programming and statistical methodology or in other cognate fields will be determined for each candidate by a departmental advisory committee.

Degree of Master of Arts
This program is designed for students who seek additional training in the biological sciences as a prerequisite to further study in professional schools or for individuals seeking additional training for secondary education.

Candidates must complete 30 hours in biological science with at least 12 hours from 6000-level courses. A three-term-hour research project is required of all students. At least one year must be spent as a full-time student at SMU.

Degree of Master of Science
This program is designed primarily for students who are research oriented and who wish to prepare for advanced work at the doctoral level. To become candidates for this degree, students must prepare, present and successfully defend a written research proposal.

In addition, candidates must complete 30 term hours, including 18 term hours at the 6000 level and BIOL 6398, 6399 (thesis), and conduct a research project, the results of which must be presented orally and defended before an appropriate examining committee of the faculty. At least one year must be spent as a full-time student at SMU.

Degree of Doctor of Philosophy
Admission to graduate study leading to the degree of Doctor of Philosophy does not constitute formal admission to candidacy for the degree. Applicants must meet the requirements set forth in the Degree Requirements section. In addition, to become a candidate for the degree, a student must complete successfully all coursework recommended by the departmental advisory committee, must complete successfully a qualifying examination that includes both written and oral sections, and must defend before an appropriate faculty committee a monograph detailing the area of proposed research or a research proposal patterned after a grant proposal.

The candidate for the Ph.D. degree must enroll for the courses necessary to bring the total number of term hours of graduate credit to 60 (as many as 24 term hours may be waived for students with previous graduate work in the life sciences), carry out a research program under supervision of the faculty, prepare a dissertation, successfully defend it before an audience that includes the dissertation committee of the faculty and meet a residence requirement of two years as a full-time student at SMU.

Combined Five-Year B.S./M.S. Degree Program
This degree program is designed for undergraduate students with a strong interest in a research career. It is a five-year plan that results in both B.S. and M.S. degrees. Admission into the program is by petition and occurs during the spring term of the second year. A more complete description of the program is provided in the undergraduate catalog.
The Courses (BIOL)

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

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

5166 (GEOL 5166). Vertebrate Origins and Evolution 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.

5305. Genomics and Bioinformatics. Impact of completely sequenced genomes on current experimental and computational approaches to biomedical research. Introduction to the technology, biology, and software exploited by molecular biology, genealogy, and medical diagnostic labs.

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, and carbohydrate and lipid chemistry. 3 hours of lecture each week.

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

5312 (CHEM 5312). Physical Biochemistry. Physical chemistry of macromolecules and biological membranes, with an emphasis on the thermodynamics of solutions.

5315. Molecular Parasitology. Evaluation of recent advances in parasitic diagnosis and treatment resulting from application of modern techniques in molecular biology.

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.

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

5359. Host–Parasite Relationships. Analysis of host–parasite relations from an evolutionary and ecological viewpoint. Lectures and laboratories conducted at Fort Burgwin, New Mexico.

5364. Endocrine Physiology. The role of hormones in maintaining physiological balance. Describes cellular actions of hormones in relation to subsequent effects in the whole organism. Three lecture hours each week.

5366 (GEOL 5366). Vertebrate Origins and Evolution. 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. Corequisite: BIOL 5166.


6312. Proteins: Structure, Function and Design. Protein structure determination, predictions of secondary and tertiary structure, enzyme mechanisms and design, and current topics in protein research.

6317. Techniques in Electron Microscopy. Laboratory exercises in transmission and scanning electron microscopy. Prerequisite: Permission of the instructor.
6321. Molecular Biology of Prokaryotes. Molecular biology and biochemistry of prokaryotic cells with emphasis on molecular genetics and regulatory mechanisms. Three lecture/discussion hours each week.


6324. Techniques in Cell Biology. Theory and application of molecular techniques in cell biology. Experiments with cell culture, antibody probes, protein purification and nucleic acid techniques. Two lecture hours and at least three laboratory hours each week.

6325. Mechanisms of Cellular Aging. Nature of age-associated cellular changes in animals. Three lecture/discussion hours each week. **Prerequisite:** Permission of the instructor.

6350. Advanced Topics in Developmental Genetics. Genetic aspects of cellular and organismal development. Three lecture/discussion hours each week. **Prerequisites:** BIOL 3304 and permission of the instructor.

6375. Scientific Analysis and Writing. Development of skills necessary for the preparation of grant applications and of scientific manuscripts for publication. Three lecture/discussion/ reading hours each week.

7312. Perceptorship in Biological Chemistry. Lectures, discussions, readings and laboratory training on metabolic processes in cell systems. Three lecture/discussion hours each week.

Special Courses

6120–6129. Graduate Seminar.

6114, 6214, 6314. Concepts in the Biological Sciences. Discussion of current literature and new concepts in varied areas of the biological sciences.

6170, 6270, 6370, 6371, 6372, 6373. Research in the Biological Sciences.

6398, 6399. Thesis. (for M.S. candidates)

7000. Research in the Biological Sciences.

7315, 7316. Selected Topics in the Biological Sciences.

8049. Full-Time Status. (for students engaged in research)

8398, 8399, 8698, 8699, 8998, 8999. Dissertation. (for Ph.D. candidates)

CHEMISTRY

Professor Elfi Kraka, Department Chair

**Professors:** Edward Biehl, John Buynak, Dieter Cremer, Michael Lattman, John Maguire, Mark Schell, Patty Wisian-Neilson. **Associate Professors:** Werner Horstemke, David Son, Brent Sumerlin. **Assistant Professors:** Nicholay Tsarevsky, Brian Zoltowski.

Admission Requirements

In addition to meeting the requirements described by the Office of Research and Graduate Studies, an applicant must hold a Bachelor’s degree with a major in chemistry. Applicants are required to take the GRE general graduate school admission test and are strongly encouraged to take the chemistry subject exam. If English is not the applicant’s native language, he or she must also take the TOEFL English language proficiency test and achieve the following minimum scores: 213 computer-based, 79–80 Internet-based, or 550 paper-based. Three letters of recommendation from individuals who have worked with the applicant must be submitted to the Department of Chemistry.
Good Standing

A student must maintain a $B$ average (3.000 on a 4.000 scale) and receive no more than two grades below the grade of $B$-. Failure to meet these requirements will result in either probation and/or dismissal from the graduate program.

Degree of Master of Science

Degree Requirements

Candidates for the M.S. degree in chemistry must complete 30 term hours of graduate work acceptable to the department, complete and defend a thesis before a committee of faculty and a general audience from the department, and satisfy all general requirements of the graduate faculty.

Degree of Doctor of Philosophy

Degree Requirements

1. The student must complete the primary core courses: CHEM 6110, 6111, 6115, 6116, 6118, 6220. The student must then complete secondary core courses, depending on the selected track.
   - **Organic/Medicinal/Bioorganic Track**: CHEM 5393, 6113, 6119.
   - **Materials/Polymer Track**: CHEM 5333, 6113, 6114.
   - **Theoretical/Computational Track**: CHEM 6343, 6325.
   Additional courses will be selected based on the student’s interest and research program and in consultation with the student’s adviser and faculty committee.
2. The student will complete at least two terms of teaching practicum (CHEM 7111, 7112) to enhance communication skills.
3. All students must register for CHEM 6120, 6121 Current Topics in Research for at least the first four terms in the program.
4. The student will take up to 12 cumulative exams until the required total score is obtained.
5. The student will present a departmental seminar (50 to 60 minutes) (CHEM 7121) on a topic that is generally in bioorganic, materials or computational/theoretical chemistry, and that is not related to his or her research, usually during the second year.
6. At the end of the second year, the student will write a paper and orally describe the progress of his or her research, including a plan for the future research program to be completed for the dissertation (CHEM 7233). This will be presented to the department and graded by a faculty committee that includes the student’s adviser.
7. At the beginning of the student’s third year, the student will write an original research proposal unrelated to the student’s research program and will successfully defend this proposal before the faculty committee (CHEM 7334). Upon successful completion of items 1–7, the student will be admitted to candidacy. The candidate must then:
8. Enroll in a sufficient number of courses to complete at least 48 hours of graduate credit.
9. Make a presentation at a professional meeting appropriate to the field of research (CHEM 7122).
10. Complete his or her research program under the supervision of the faculty.
11. Successfully write and orally defend before a faculty committee a dissertation (CHEM 8698, 8699) on his or her individual research program.

The Courses (CHEM)

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 the instructor.

5192. Inorganic Chemistry Laboratory. Synthesis and characterization of transition metal and main group element compounds and solid-state materials. Prerequisite or corequisite: CHEM 5392.

5306. Computational Chemistry. Introduction to the techniques of computer modeling of small to medium-sized organic molecules using advanced graphics workstations. Prerequisite: CHEM 3372.

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, and carbohydrate and lipid chemistry. Three lecture hours per week. Prerequisites: CHEM 3371 (3373) and 3117 (3119).

5311. 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, 3372.

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

5317. Introduction to Molecular Modeling and Computer Assisted Drug Design. The course presents a thorough and in-depth overview of methods and techniques in computer assisted drug design. It includes topics such as drug discovery and drug design, molecular recognition and docking, ligand-receptor interactions, pharmacophore searching, virtual screening, de novo design, molecular graphics, and chemometrics. Prerequisite: Permission of the instructor.

5321. Understanding Chemistry. The course focuses on a general understanding of chemistry in terms of models and concepts that describe structure, stability, reactivity, and other properties of molecules in a simple, yet very effective way. Prerequisite: Permission of the instructor.

5322. Introduction to Nanotechnology. Nanotechnology is expected to change lives and society more than computer technology and electricity have done together. The course provides an introduction to NT. Nanomaterials and their applications are discussed. Prerequisite: Permission of the instructor.

5333. Introduction to Polymer Chemistry. Introduces the synthesis, physical properties and solution properties of high molecular weight molecules. Plastics, manufacturing and fabrication of polymers.

5335. Advanced Laboratory Methods and Techniques. Advanced techniques and methods in the synthesis of chemical compounds.

5383. Physical Chemistry I. Gas laws, elementary kinetic theory and the four laws of thermodynamics, including applications to phase diagrams and biological processes. Prerequisites: PHYS 1106, 1304 (or 1408) and MATH 2338. Prerequisite or corequisite: CHEM 3351.

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

5390. Environmental Chemistry. An examination of the chemistry of earth’s environment, with emphasis on problems caused by human activity. Includes aquatic and soil chemistry, nuclear chemistry, combustion, alternative energy technologies, atmospheric chemistry, and global warming. Prerequisites: MATH 1338, PHYS 1303 or 1407, and CHEM 1304. Recommended: PHYS 1304 or 1408, CHEM 5381 or 5383, or GEOL 6338.

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

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

5395. Advanced Analytical Chemistry. 3 hours of lecture a week. Prerequisite: CHEM 5486.

5396. Advanced Physical Chemistry. 3 hours of lecture a week. Prerequisite: CHEM 5384.

5397. Biotransformations and Biocatalysis. Covers the history, application and current trends of biotransformations and biocatalysis with emphasis on how biocatalysts are developed and used in pharmaceutical research.

5398. Medicinal Chemistry. Emphasizes the design, mode of action and metabolism of drugs, including antibiotics, antifungals, antivirals, anticancer agents, CNS agents and analgesics/anti-inflammatory agents. Prerequisites: CHEM 3371, 3372.

5486. Instrumental Analysis. 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.

6000. Research. For students who hold fellowships, but are not enrolled in any credit-hour courses. No tuition.

6049. M.S. Graduate Full-Time Status.

6110. Chemical Communications: Literature, Writing and Presentations. Fundamentals of literature searching, scientific writing, oral and poster presentations, and research notebooks.

6111. Practical Laboratory Methods. Describes the theory behind and practice of laboratory techniques necessary to perform advanced synthetic chemical research.

6112. Advanced Stereochemistry. Advanced study in molecular geometry and relationships in space between atoms and groups in a molecule.


6115. Theory of the Chemical Bond. Covers different descriptions of covalent bonding, including the ability to predict bonding structures in molecules and methods to test these predictions.

6116. Introduction to Bioorganic and Medicinal Chemistry. Protein structure, enzymes and receptors as drug targets, enzyme inhibitors, design of agonists, and design of antagonists.

6117. Chemical Periodicity: Reactivity and Structural Trends in Inorganic and Organometallic Compounds. Explores periodic or recurring trends of the chemical elements in terms of their properties and chemical behavior.

6118. Overview of Materials Chemistry. Surveys the synthesis, characterization and applications of ceramics and glasses, polymers, metals, nanomaterials, semiconductors and conductors, and biomaterials.

6119. Synthetic Strategies. Formation of the carbon skeleton, organometallic reagents and coupling reactions, protecting groups and chemical compatibility, and convergent synthesis.

6120, 6121. Current Topics in Research. Review of current research as presented by visiting lecturers.
6130. **Mechanisms in Organic, Organometallic and Bioorganic Chemistry.** Fundamental mechanistic concepts in bioorganic, materials, medicinal, organic and organometallic chemistry. Emphasizes mechanistic similarities of seemingly different types of reactions.

6220. **Modern Aspects of Chemistry.** Overview of current important topics in chemistry and the relationship to research programs in the department. *Prerequisite:* Official admission to graduate program.

6306. **Computational Chemistry.** An introduction to the techniques of computer modeling of small to medium-sized organic molecules using advanced graphics workstations. *Prerequisite:* CHEM 3372.

6308. **Special Topics in Chemistry.** Presentation of advanced special topics that are at the forefront of current chemical interest. Content varies from term to term.

6302. **The Chemical Bond.**

6312. **Theory of Organic Chemistry.**

6325. **Introduction to Ab Initio Calculations: Hartree-Fock Theory.** Quantum chemical investigations of the ab initio type normally start with a Hartree-Fock calculation. Students interested in quantum or computational chemistry have to acquire basic knowledge in Hartree-Fock theory before starting with the more advanced electron correlation theories. This course provides an introduction into Hartree-Fock theory. *Prerequisite:* Permission of the instructor.

6331. **Theory of Analytical Chemistry.**

6341. **Advanced Models and Concepts in Chemistry.** Advanced models and concepts are presented to understand the structure, stability, and reactivity of molecules in organic, inorganic, and polymer chemistry. *Prerequisite:* Permission of the instructor.

6342. **Nanotechnology: Fundamentals and Applications.** Nanotechnology is an interdisciplinary field including, among other nanosciences, nanoengineering and nanomedicine. The course provides the fundamentals and present applications of nanotechnology in a variety of disciplines. *Prerequisite:* Permission of the instructor.

6343. **Advanced Computational Chemistry.** The course provides in-depth training on how to use the computer as a modern, efficient tool to solve chemical problems. Major quantum chemical packages are used. The course is designed for all graduate students from chemistry, biochemistry, medicinal chemistry, biology, and engineering who want to obtain a thorough overview of methods and techniques applied in computational chemistry. Since the course addresses a broad audience, it is designed as an interdisciplinary course for graduate students with different backgrounds. *Prerequisite:* Permission of the instructor.

6344. **Computer Assisted Drug Design: Fundamentals and Applications.** The course discusses the fundamentals of computer assisted drug design, the latest and important developments in CADD methodologies, and their applications. Topics include drug discovery, virtual screening, de novo design, and neural networks, among others. *Prerequisite:* Permission of the instructor.

6351, 6352. **Methods and Techniques of Research.**

6397. **Biotransformations and Biocatalysis.** Covers the history, application and current trends of biotransformations and biocatalysis with emphasis on how biocatalysts are developed and used in pharmaceutical research.

6398, 6399. **Thesis.**

7101, 7201, 7301. **Advanced Independent Study.** Readings in the chemical literature on current research topics related to the student’s area of research.

7108, 7208, 7308. **Special Topics.** Presentations of contemporary topics in chemistry.

7111, 7112. **Teaching Practicum.** Discussion and experience in teaching and communication in the laboratory and classroom.

7121. **Departmental Presentation.** Major presentation to the entire department on a topic developed from the literature.

7122. **Meeting Presentation.** Oral presentation at a professional meeting.

7151, 7251, 7351. **Research.**
Research Synopsis and Objectives. A written report of research progress and development of a written research plan for the Ph.D. research program. Must be defended before a faculty committee.

Proposal Methodology. Development of a written research proposal that is defended before a faculty committee.

Ph.D. Graduate Full-Time Status.

Dedman College Graduate Catalog

EARTH SCIENCES

smu.edu/earthsciences

Professor Robert Gregory, Department Chair


Geology or Geophysics Admission Requirements

The minimum requirements for admission to graduate work in the Earth sciences are those now in effect for admission to the graduate programs of SMU. The candidate is required to submit scores on a recent GRE graduate school admission test. International students applying from countries where English is not the native language are required to submit scores on the TOEFL English language proficiency examination.

Degree of Master of Science

Degree Requirements

To qualify for the M.S. degree in geology or geophysics, the student must have: 1) successfully completed a minimum of 30 hours of graduate study acceptable to the departmental faculty, including graduate core courses GEOL 5320, 6107, 6321 and thesis hours GEOL 6398, 6399; 2) passed a general qualifying examination; and 3) written and successfully defended a thesis.

Degree of Master of Science in Applied Geophysics

Degree Requirements

This degree plan is specifically developed for students interested in a career in exploration in the petroleum industry. To qualify for the M.S. degree in applied geophysics, the student must have: 1) successfully completed a minimum of 33 hours of graduate study as specified in the curriculum or acceptable to the departmental faculty, 2) passed a general qualifying examination, and 3) completed and successfully defended a project related to some facet of applied geophysics.

Degree of Doctor of Philosophy

Degree Requirements

To qualify for the Ph.D. degree in geology or geophysics, the student must have 1) satisfied all curricular requirements as specified by the departmental faculty, including graduate core courses GEOL 5320, 6107, 6321; 2) successfully passed a general qualifying examination; 3) completed a minimum of three years of graduate academic work, at least two of which are in full-time residence on the SMU campus.
or at a research facility approved by the departmental faculty and the dean of graduate studies; and 4) written and made a successful public defense of a dissertation. See the Degree Requirements section of this catalog for general requirements for the Ph.D. degree.

The Courses (GEOL)

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. Prerequisite: Permission of the instructor.


5199, 5299, 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 cotau in the department. Prerequisite: GEOL 3340 or permission of the instructor.

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 the instructor.

5361. 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.

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

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

5369. Introduction to Palynology. An overview of palynology concepts and uses. Taphonomic processes and applications in paleoecology, paleoclimatology, archeology, plant taxonomy and plant evolution. 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. Prerequisites: GEOL 3340 and permission of the instructor.

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


5374. Petroleum Geology. Application of geologic principles to the location and recovery of hydrocarbon resources in the crust of the earth. Prerequisites: GEOL 3340 and CHEM 1304.

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

5382. Igneous and Metamorphic Petrology. The origin, occurrence and classification of igneous and metamorphic rocks. Problems of genesis in 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 geologic processes. The application of thermodynamics, kinetics and fluid mechanics to understand such geologic processes as ore formation, sediment diagenesis, isograd formation, acid rain, global warming and groundwater contamination. Prerequisites: MATH 1338 and CHEM 1304 or permission of the 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 the 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 and permission of the instructor.


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


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.

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

6107. Departmental Seminars. Requires students attend and critically evaluate departmental lectures given by visiting scientists, visiting engineers, faculty and fellow students. Required of all graduate students who have not yet passed their degree qualifying exam.

6110, 6210, 6310. Independent Study in Geoscience. Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for 6110 or 6210; group projects allowed for 6310. Prerequisite: Permission of the instructor.

6209, 6309. Special Topics in Geological Sciences.

6301. Sedimentology: Carbonate Environments. Carbonate depositional models from modern arid and humid areas as keys to the interpretation of ancient carbonate rocks. Analysis of fauna, texture, classification, sedimentary structures and primary geochemistry.

6302. Sedimentology: Clastic Environments. Description and classification of terrigenous clastic sediments and sedimentary structures. Principal emphasis on analysis of modern and ancient siliciclastic depositional systems.

6303. Sedimentology: Carbonate Diagenesis. Postdepositional alteration of carbonate strata with particular emphasis on the prediction of porosity. Field, petrographic and geochemical lines of evidence.


6305. Sedimentary Geochemistry. Processes controlling the composition of natural waters and minerals in sedimentary realms with emphasis on subsurface environments. Uses interpretation of analytical data and theoretical treatments to understand geochemical cycling from weathering to precipitation of new minerals.
6306. Reservoir Facies Architecture. Description of clastic and carbonate reservoirs using sedimentological, petrological, petrophysical and petroleum engineering data to formulate realistic models for primary and enhanced recovery in various depositional systems that contain oil and gas reserves.

6308. Biostratigraphy and Biochronology of Mammals. The succession of mammalian faunas through time with emphasis on stratigraphic, chronological and zoogeographic principles and their application to geology.

6316. Advanced Structural Geology. Structural description, strain and displacement in orogenic belts. The theory, methodology, applications and limitations of modern structural analysis techniques. Incorporates these tools into understanding the evolution of major orogenic belts.

6317. Tectonic Analysis. A practical approach to the study of tectonics of Archean basement terrains, mountain belts and contemporary zones of plate convergence using primary geological and geophysical data.

6321. The Dynamic Earth II. Description of modern methods of measuring geologic time and the establishment of isotopic, biostratigraphic, paleomagnetic and geochemical stratigraphies. Examination of sedimentary, biological and geochemical cycles (such as sea level fluctuations, climatic variations, evolutionary patterns, atmospheric-oceanic compositions and continental positions) and their influence on the earth’s sedimentary record. Requires a selected list of prerequisite readings that is available from the departmental office.

6333. Advanced Igneous Petrology I. Theoretical and experimental aspects of igneous petrology. Thermodynamics and properties of silicate melts, crystallization and nucleation, trace element behavior, and high- and low-pressure phase relations.

6334. Advanced Metamorphic Petrology. Study of metamorphic rocks as mineral assemblages. Mineral equilibria observed by comparison of field and experimental data. Prerequisite: GEOL 5481 or equivalent.

6335. Advanced Igneous Petrology II. Geochemistry and classification of igneous rocks, relationships between magnetism and tectonism, volcanology, emplacement of plutonic rocks, and processes of magmatic differentiation.

6338. Thermodynamics of Geological Processes. Introduction to theoretical aspects of thermodynamics as they are applied in the Earth sciences to igneous, metamorphic and sedimentary processes. Emphasis on fundamental relationships in thermodynamics and mineral equilibria in aqueous solutions, solid rocks, silicate melts and isotopic systems.

6341. Basin Analysis. Description of modes of origin of sedimentary basins, their thermal and subsidence history, and their patterns of sediment infill. Broad examination of modern concepts of thermal modeling, stratigraphy, sedimentology and hydrocarbon generation. Offered only upon request.

6363. Environmental Geology Seminar. Timely geoscience-based environmental problems and scientific, environmental, political, economic, legal and social aspects of potential “solutions.” Selected readings, seminars, guest speakers and research projects.

6369. Advanced Geochemistry. Low temperature aqueous geochemistry with emphasis on carbonate equilibria. The chemistry of natural waters. Application to sedimentary diagenesis and formation of ore deposits.

6370. Aquatic and Mineral-Water Interface Geochemistry. Chemical equilibria and kinetics in natural water and at the mineral-water interface to help understand the distributions of aqueous species at and near the earth’s surface and man’s influence on them. Prerequisite: GEOL 5338 or 5386 or permission of the instructor.

6371. Isotope Geochemistry and Geochronology. Geochemistry of radiogenic and stable isotopes; evolution of Pb, Sr and Nd isotope systems; application to problems in magma genesis, geothermal studies, tectonophysics and geochronology; and application of isotopes as natural tracers.

6376. Application of Geophysical Techniques of Geothermal Exploration. A detailed study of geophysical techniques with applications to geothermal exploration. Prerequisite: GEOL 6375 or permission of the instructor.

6380. Geophysical Inverse Theory. Theoretical development and application of inversion theory to problems in geophysics. Prerequisites: MATH 5353 and permission of the instructor.

6381. Igneous and Metamorphic Petrology. The origin, occurrence and classification of igneous and metamorphic rocks. Problems of genesis considered in the light of chemical equilibria and features of geological occurrence. Lecture only.

6385. Electrical Methods in Geophysics. A study of electrical methods used in modern geophysical exploration. Prerequisites: PHYS 1304 and permission of the instructor.

6391. Theoretical Geophysics. Introduction to potential theory. The figures, gravitational and magnetic fields of the planets. Interpretation of field gravity, magnetic and electrical data. Prerequisite: MATH 5334.

6392. Interior of the Earth. Formation and thermal evolution of the earth, generation of the magnetic field, physical and chemical state of mantle and core, convection in the mantle and geochemical reservoirs, evolution of the crust, relationship of interior processes to lithospheric tectonics, and comparison to the other terrestrial planets. Prerequisite: Permission of the instructor.

6393. Geophysical Continuum Mechanics. Stress, strain and strain-rate tensors. Rheology of geological materials. Formulation and solutions of the equations describing the elastic, plastic, viscous and thermal behavior of the earth. Application to lithospheric flexure, plate tectonics, postglacial rebound, sedimentary basin evolution, convection in the mantle, interaction with the lithosphere and comparative planetary tectonics. Prerequisites: Permission of the instructor and MATH 5334 or equivalent.

6394. Mathematical Methods of Geophysics and Theoretical Seismology I. Continuum mechanics including viscoelastic materials, reciprocity, representation theorem, moment tensors, kinematic and dynamic source models, Green’s functions and matrix methods, including Haskell-Thompson. Prerequisite: GEOL 6394 or permission of the instructor.

6395. Mathematical Methods of Geophysics and Theoretical Seismology II. Synthetic seismograms for layered materials, transform methods in the solution of the wave equation, Cagniard-de Hoop and the generalized ray solution, first motion approximation, WKBJ approximation, reflectivity, and full wave theory. Prerequisite: GEOL 6394 or permission of the instructor.


6398, 6399. Thesis.

7000, 7100, 7300. Research.

7152, 7252, 7352. Seminar in Sedimentology.

7153, 7253, 7353. Seminar in Petrology.

7155, 7255, 7355, 7360. Seminar in Geophysics.

7158, 7258, 7358. Seminar in Sedimentology.

7201, 7301. Research in Sedimentology.

7202, 7302. Research in Sedimentology.

7203, 7303. Research in Stratigraphy.

7204, 7304. Research in Stratigraphy.

7205, 7305. Research in Paleontology.

7206, 7306. Research in Paleontology.

7209, 7309. Research in Mineralogy and Petrology.

7210, 7310. Research in Mineralogy and Petrology.

7213, 7313. Research in Geophysics.
7214, 7314. Research in Geophysics.
7215, 7315. Research in Geochemistry.
7216, 7316. Research in Geochemistry.
7250, 7350. Seminar in Paleontology.
7251, 7351. Seminar in Stratigraphy.
7254, 7354. Seminar in Geochemistry.
7257, 7357, 7359. Seminar in Structural Geology.
7317. Research in Geomorphology.
7370. Seminar in Paleontology.
7380. Research Project in Applied Geophysics. Graduate-level research in applied geophysics, including interaction with ongoing programs in the industrial community.
8100. Research.
8398, 8698, 8998. Dissertation.
8399, 8699, 8999. Dissertation.

ECONOMICS

Professor Nathan Balke, Department Chair


Minimum Requirements for Admission – Ph.D. Degree

● Cumulative GPA of at least 3.000 (on a 4.000 scale).
● Excellent scores on the aptitude parts (verbal and quantitative) of the GRE graduate school admission test. (To be considered for financial aid in the Ph.D. program, the GRE scores must total at least 1200 on the verbal and quantitative parts combined.)
● A Bachelor’s degree in economics. The program is also open to students from other fields such as mathematics, statistics and engineering. However, all applicants must have taken at least 12 hours of economics, including two intermediate theory courses, one in price theory (microeconomics) and one in macroeconomics.
● Mathematical proficiency equivalent to courses in multivariate calculus (i.e., three terms of university-level calculus), probability and statistics (two terms), differential equations and linear algebra.
● TOEFL English language proficiency test scores, if required. TOEFL scores are required of all international students who do not hold a degree from a U.S. degree-granting institution. The minimum acceptable score is 213 on the computer-based test or 79–80 on the Internet-based test.

Minimum Requirements for Admission – M.A. Degree

● Cumulative GPA of at least 3.000 (on a 4.000 scale).
● Twelve hours of undergraduate economics, including two intermediate theory courses, one in price theory (microeconomics) and one in macroeconomics.
● Introductory course in statistics.
● One term of calculus.
● Satisfactory GRE graduate school admission test scores if the undergraduate GPA is lower than 3.000.
Applicants for the M.A. Law and Economics Track must already have the J.D. degree or be students in the Dedman School of Law in addition to the admission requirements for the M.A. degree.

**Degree of Master of Arts**

**M.A. With Thesis**

Required Courses. ECO 6371 Introduction to Quantitative Economics, ECO 6384 Microeconomic Theory I and ECO 6394 Macroeconomic Theory I must be completed with a grade of C or better.

Credit Hours. Every student must earn at least 30 term hours in an approved program of study.

Grade Point Average. Every student must maintain a cumulative B (3.000) average in courses taken in the degree program.

Thesis and Master’s Papers. A student must submit either a Master’s thesis or two approved Master’s papers.

Qualifying Examination. Upon completion of the coursework and the acceptance of the thesis or the papers, the student must pass an oral examination given by a faculty committee.

Residence. A residence of at least nine months in the regular sessions is required.

**M.A. in Conjunction With Ph.D.**

Students pursuing a Ph.D. program are qualified to receive the M.A. degree after having fulfilled the following requirements: 1) passing the written qualifying examination in microeconomic theory and macroeconomic theory and 2) completing 30 term hours of courses in their program.

**M.A. in Economics – Applied Economics Track**

The curriculum for an M.A. in economics – applied economics track – is customized to suit the needs of an economist as a graduate student pursuing a career in a business or financial institution, or government agency, or as a senior manager who must analyze the external economic forces affecting a firm and factor them into corporate decisions. The program emphasizes the application of economic theory with quantitative skills and computer literacy as required by corporations and financial institutions in their economic decision-making processes. A rigorous theoretical economic framework is established for the study of government policy and the growing openness of the U.S. economy to foreign competition and economic events. At the same time, mathematical rigor is not compromised. The necessary concepts are developed from the basics, but at a more deliberate pace than in a Ph.D. program. Since many candidates for this degree plan prefer to pursue a degree while employed, many courses in the degree plan are scheduled for evening hours.

Students take three required core courses in economics that form the building blocks for further study and analysis in economics. Another three required courses provide applied training in econometrics and microeconomic analysis. Six additional courses are needed to complete the degree, two of which must be 6000-level courses.

**Required Core Courses**

- **ECO 5350** Introductory Econometrics
- **ECO 6381** Economic Analysis I (microeconomics)
- **ECO 6382** Economic Analysis II (macroeconomics)
**Required Applied Economics Courses (3 out of 4)**

- ECO 5375 Business and Economic Forecasting
- ECO 5385 Data Mining Techniques for Economists
- ECO 6352 Applied Econometric Analysis
- ECO 6383 New Approaches to Managerial Economics

**Six of the following courses (2 of which must be at the 6000 level)**

- ECO 5337 Urban Economics
- ECO 5340 Decision-Making Under Uncertainty
- ECO 5341 Strategic Behavior
- ECO 5353 Law and Economics
- ECO 5355 Political Economics
- ECO 5357 Economics of Human Resources
- ECO 5359 Microeconomic Development
- ECO 5360 Macroeconomic Development
- ECO 5361 Natural Resource and Energy Economics
- ECO 5362 Economic Growth
- ECO 5365 Public Finance
- ECO 5370 Cost-Benefit Analysis
- ECO 5390 Mathematical Finance
- ECO 6320 Applied Monetary Theory and Policy
- ECO 6330 Exchange Rates and International Capital Markets
- ECO 6331 International Trade
- ECO 6333 Trade Policy and the World Trading System
- ECO 6337 Emerging Markets
- ECO 6339 Topics in International Economics

Some courses are offered in sequence, which means they are not offered every term.

**Credit Hours.** Every student must earn at least 36 term hours in an approved program of study, with at least half of the coursework being at the 6000 level. This plan does not require a Master’s thesis or Master’s papers. A comprehensive final exam is required.

**Grade Point Average.** All courses must be completed with a grade of C (2.000) or better and a B (3.000) average in all the courses taken in the program.

**M.A. in Economics – International Economics and Policy Track**

This curriculum is designed for students who wish to deepen their understanding of the changing global economic environment. Equal emphasis is placed on theory and practice in international economics. All of the entrance requirements for the M.A. in economics – applied economics track – hold for this degree plan. Students take three core courses in economic and quantitative analysis, and these serve as the building blocks for further study and analysis in economics. The three required international courses provide students with the necessary background in theory and practice of international trade, finance and policy. Students can pursue special interests in international economics through elective courses.

**Required Core Courses**

- ECO 5350 Introductory Econometrics
- ECO 6381 Economic Analysis I (microeconomics)
- ECO 6382 Economic Analysis II (macroeconomics)
Required International Economics Courses

ECO 6331 International Trade
ECO 6330 Exchange Rates and International Capital Markets
ECO 6333 Trade Policy and the World Trading System

Three of the following economics courses

ECO 5359 Microeconomic Development
ECO 5360 Economic Development
ECO 5375 Business and Economic Forecasting
ECO 5385 Data Mining Techniques for Economists
ECO 6339 Topics in International Economics
ECO 6337 Emerging Markets
ECO 6352 Applied Econometric Analysis

Electives

Nine hours (three courses) of free electives. Students must have a total of six courses at the 6000 level.

Credit Hours. Every student must earn at least 36 credit hours in an approved program of study, with at least half of the coursework being at the 6000 level. This plan does not require a Master’s thesis or Master’s papers. A comprehensive final exam is required.

Grade Point Average. All courses must be completed with a grade of C (2.000) or better and a B (3.000) average over all the courses taken in the program.

M.A. in Economics – Law and Economics Track

The curriculum for an M.A. in economics – law and economics track – is customized to suit the need of lawyers for more knowledge of economics, particularly applied microeconomic analysis of problems commonly encountered by lawyers and judges, and includes econometric analysis often encountered by the courts from expert witnesses on both sides of a case.

Because many candidates for this degree plan prefer to pursue a degree while actively engaged in the practice of law, most courses in the degree plan are scheduled for evening hours.

Students with J.D. degrees working toward the M.A. will follow this 36-hour nonthesis plan. Students currently in law school will be permitted to substitute nine hours of approved law school credit as electives. All students are required to take at least six hours at the 6000 level.

Required Courses

ECO 5341 Strategic Behavior
ECO 5350 Introductory Econometrics
ECO 5353 Law and Economics
ECO 6352 Applied Econometric Analysis
ECO 6381 Economic Analysis I
ECO 6383 New Approaches to Managerial Economics

Electives

ECO 5337 Urban Economics
ECO 5340 Decision-Making Under Uncertainty
ECO 5357 Economics of Human Resources
ECO 5359 Microeconomic Development
ECO 5360 Economic Development
ECO 5361 Natural Resource and Energy Economics
ECO 5362 Economic Growth
ECO 5365 Public Policy Toward Business
ECO 5370 Cost-Benefit Analysis
ECO 5375 Economic and Business Forecasting
ECO 5385 Data Mining Techniques for Economists
ECO 5390 Mathematical Finance
ECO 6320 Applied Monetary Theory and Policy
ECO 6330 Exchange Rates and International Capital Markets
ECO 6382 Economic Analysis II
ECO 6390 Regional Economic Analysis

Credit Hours. Every student must earn at least 36 credit hours in an approved program of study, with at least half of the coursework being at the 6000 level. This plan does not require a Master’s thesis or Master’s papers. A final exam is required.

Grade Point Average. All courses must be completed with a grade of C (2.000) or better and an overall B (3.000) average for all courses taken in the degree program.

Degree of Doctor of Philosophy

The major requirements for the Ph.D. degree consist of passing certain qualifying examinations and writing an acceptable dissertation. Other requirements include specific courses, credit hours, GPA and residence. All of these are briefly described below.

Qualifying Examinations

Every student must pass written qualifying examinations in microeconomic theory and macroeconomic theory. Students will normally take these exams following the end of the second term in the program.

Field Requirements

Two fields are required. Each field involves at least six hours of 7000-level coursework in a specified area and must be completed with at least a grade of B in each course. ECO 7304 Preprospectus Workshop or ECO 6375 Introduction to Applied Econometric Methods can be used, with the prior approval of the director of graduate studies, to count toward three hours of one six-hour field requirement.

Third-Year Requirement

By the end of their third year, all students must submit a completed Faculty Adviser Form to the director of graduate studies. By the end of their third year, all students must also complete a research paper approved by a faculty member.

Dissertation

The student must pass qualifying examinations before beginning work on the dissertation. The student must prepare a dissertation prospectus, to be presented before a faculty committee upon completion. After the prospectus is approved, and the dissertation is completed, the student must defend the dissertation at a final oral examination.

Course and Credit Hour Requirements and Time Limitations

Every Ph.D. student must earn a minimum of 48 credit hours in an approved program of study with an additional 12 credit hours of dissertation. The 48 hours
exlude 8000-level courses such as dissertation research. The courses required of an entering Ph.D. student with no transfer credit are listed in the following sample program. Any course taken as an elective must be at the 5000 level or above and must be approved by the director of graduate studies. Up to 24 credit hours of graduate coursework may be transferred from another institution upon approval by the department and the graduate dean. The field requirements must be completed within four years from the date the student enters the graduate program. The dissertation must be completed within eight years from the date the student enters the graduate program.

**Good Standing**

Students pursuing a Ph.D. degree are required to maintain good standing by being enrolled in at least one credit course per term. ECO 8100, which carries one credit hour, may be used for this purpose at the thesis stage. In some cases, ECO 8000 may be used for this purpose if approved by the chair. To remain in good standing, graduate students must maintain a cumulative GPA of 3.000. If in any term the student falls below this GPA, the student will be placed on probation for one term.

**Residence**

Every Ph.D. candidate must be in residence at SMU for at least one academic year.

**The Courses (ECO)**

**5301. Topics.** (Specific topic will be named in title.) *Prerequisites:* C- or better in ECO 3301 and 3302, MATH 1309 or 1337, and one of the following: STAT 2301, or 2331, or 4340, or graduate standing.

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

**5340. Decision-Making Under Uncertainty.** Provides a basis for the modeling of decision-making under conditions of incomplete information. *Prerequisites:* ECO 3302, calculus, and basic statistics or probability, or graduate standing.

**5341. Strategic Behavior, Game Theory, and Applications to Economics.** Uses the tools of game theory to examine the elements of strategic behavior of various economic agents, such as firms, consumers, or government. *Prerequisites:* ECO 3301 and one term of calculus, or graduate standing.

**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, or 2337; and ECO 3301 or permission of the instructor. *Note:* Graduate students or students who have taken ECO 4350 may not take this course.

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

**5355. Political Economics.** Both methods and applications of political economics models via theoretical and empirical investigation of various topics with emphasis on asymmetric information, income redistribution and fairness, federalism and formation of institutions, and strategic behavior of special interest groups. *Prerequisite:* ECO 3301, or equivalent course, or graduate standing.

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

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

5360. Economic Development: Macroeconomic Perspectives. A macroeconomic examination of the economic issues faced by developing countries. Includes population growth, national savings, capital accumulation, human capital formation, government institutions and international integration. **Prerequisites:** ECO 3301 and 3302, or equivalent courses, or graduate standing. (**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. This course is designed to develop an understanding of the economics of energy and natural resource use and policy. Topics include natural resource supply and demand, the economics of renewable and nonrenewable resource usage, sustainable economic growth, the environmental effects of natural energy conservation, energy security and the (de)regulation of U.S. electricity and natural gas markets. **Prerequisites:** C- or better in ECO 3301 and 3302, MATH 1309 or 1337, and one of the following: STAT 2301, or 2331, or 4340, or graduate standing.

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

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

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

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

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

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

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

**6352. Applied Econometric Analysis.** Applications of econometric methods in various branches of economics. **Prerequisite:** ECO 5350 or permission of the instructor.

**6383. New Approaches to Managerial Economics.** Recent developments in information theory, multiproduct analysis and principal-agent theory. Shows how these developments can be usefully applied in management decision-making. **Prerequisite:** ECO 6381 or permission of the director of graduate studies.

**Economic Theory**

**6371. Introduction to Quantitative Economics.** Prepares the first-year graduate student for the study of economic theory and econometrics. Covers topics in mathematics and probability that are widely applied in economic theory and econometrics. **Prerequisite:** Ph.D. graduate standing.

**6381. Economic Analysis I.** Focuses on analysis of basic models of the firm under purely competitive markets and monopolistic competition and simple consumer behavior models. Employs basic mathematical tools such as calculus. Credit for this course cannot be applied toward an M.A. with a thesis or a Ph.D.

**6382. Economic Analysis II.** Presents analysis of basic national income models and various modifications of these models. Credit for this course cannot be applied toward an M.A. with a thesis or a Ph.D. **Prerequisite:** ECO 6381 or permission of the instructor.

**6384. Microeconomic Theory I.** Basic theories of the firm under competitive and monopolistic conditions and basic theory of consumer behavior. **Prerequisite:** Ph.D. graduate standing.

**6385. Microeconomic Theory II.** Extensions of topics covered in ECO 6384, including monopolistic competition, intertemporal optimization, behavior under uncertainty and welfare economics. **Prerequisite:** ECO 6384.

**6386. Microeconomic Theory III.** Uses game theory to introduce students to the strategic aspects of some of the economic models developed in Microeconomic Theory I (ECO 6384) and Microeconomic Theory II (ECO 6385). Also, uses game theory to formulate and solve new problems and analyze new economic models. **Prerequisite:** ECO 6385.

**6387. Microeconomic Theory IV.** Examines a variety of advanced topics that are not covered in the first three microeconomic theory courses (for example, stochastic methods, general equilibrium theory, welfare economics and/or dynamic models). **Prerequisite:** ECO 6386.

**6390. Regional Economics.** An introduction to the theories of regional economics and to the principal methods of regional analysis including economic base, shift-share, input-output, econometric and time series approaches. **Prerequisites:** ECO 6381, 6382.

**6394. Macroeconomic Theory I.** Discusses basic theories concerning the determination of national income, employment, consumption, investment and the general price level. **Prerequisite:** Ph.D. graduate standing.

**6395. Macroeconomic Theory II.** Provides theoretical and empirical underpinnings for macroeconomic models of the economy, with an emphasis on economic policy. **Prerequisite:** ECO 6394.

**6396. Macroeconomic Theory III.** Covers recent developments in the related areas of business cycle theory, monetary theory, asset pricing and open economy macroeconomics. **Prerequisite:** ECO 6395.

**7302. Topics in Economic Theory.** Examines selected topics to complement the material in the micro and macro sequence.
**Advanced Theory**

**7305. Mathematical Economics.** Applies mathematical tools to various economic problems.

**7306. Advanced Economic Theory.** Presents a variety of advanced topics in theory not covered in the core theory sequence. For example, uncertainty or applied economic theory.

**International Economics**

**6330. International Economic and Financial Environment.** Operation of the foreign exchange markets, balance of payments adjustments, the international equilibrium system and international aspects of economic policymaking. Employs mathematical modeling as appropriate and requires some research using methods of quantitative analysis. A student cannot receive credit for both ECO 6330 and 7332. **Prerequisites:** ECO 6381, 6382 or departmental permission.

**6331. International Trade.** Surveys the major theories of world trade. Analyzes the empirical evidence regarding these theories. Develops a framework for the analysis of trade policy instruments such as tariffs, quotas and voluntary export restraints. **Prerequisite:** ECO 6381 or departmental permission.

**6333. Trade Policy and the World Trading System.** Surveys the major institutions of world trade. Analyzes the political economy of trade policy in major trading countries in conjunction with the rules of world trade, as defined by the agreements of the World Trade Organization and the agenda of the World Bank and the International Monetary Fund. **Prerequisites:** ECO 6331, 6330 or permission of the instructor.

**6339. Topics in International Economics.** Examines selected topics in international economics. Applies concepts and tools developed in the core international trade and finance and policy courses to topics that are of current special interest and typically not covered in detail in the core courses. **Prerequisites:** ECO 6330, 6331. May be taken concurrently with ECO 6333.

**7332. International Macroeconomic Theory and Policy.** Discusses concepts of balance of payments equilibrium; responses to disequilibrium; national economic policies affecting international payments; and past, present and proposed international financial institutions.

**7333. Theory of International Trade and Factor Movements.** Determinants of regional specialization, gains from trade, and theoretical analysis of factor movements and of policies affecting the interspatial movement of goods and persons.

**International and Development Economics**

**6337. Emerging Markets.** Applies economic analysis to the particular problems facing newly industrialized countries and countries in transition from centrally planned to market economies. Evaluates the role of the government as well as political and legal institutions for the economic success or failure of emerging markets. **Prerequisites:** ECO 6330, 6331 or permission of the instructor. May be taken concurrently with ECO 6333.

**7334. Development Economics.** Applies economic theory to developing economies, including population and household economies, agriculture, industry, international trade and factor movements, and investment project evaluation. To complete this field, the student also must take ECO 7332, 7333.

**Human Resources**

**7321. Theory of Labor Economics.** Covers theories and empirical testing of hypotheses concerning the behavior of labor markets.

**7322. The Development of Human Capital.** Discusses theories concerned with the investment in human capital and its impact on economic growth.

**Econometrics**

**6372. Introduction to Econometrics.** Provides economists with the essential skills required to advance through the various areas of specialization in econometrics. **Prerequisite:** Ph.D. graduate standing.

**6374. Econometrics.** Examines econometric theory and methods with emphasis on the multiple regression model and its extensions. **Prerequisite:** ECO 6372.
6375. **Introduction to Applied Econometric Methods.** An overview of econometric methods used in empirical economic research with emphasis on econometric methods used in macroeconomics and microeconomics. *Prerequisite:* ECO 6374.

7075, 7275. **Econometrics Workshop.** Examines new developments in applied and theoretical econometrics, time series analysis, and related mathematical and statistical topics. Allows faculty and students to present and discuss their latest research findings in econometrics in some sessions. *Prerequisite:* ECO 6374 or higher.

7377. **Econometric Theory and Methods.** Advanced econometric theory and methods, including asymptotic theory and other selected topics.

7378. **Applied Econometrics Methods.** Applies econometric methods to empirical areas of economics.

### Monetary Economics

6320. **Applied Monetary Theory and Policy.** Covers operation of the banking sector, demand for money and control of its supply, and economic policymaking by the Federal Reserve and its importance for business decision-making at senior levels. A student may not receive credit for both ECO 6320 and ECO 7361 or 7362. *Prerequisites:* ECO 6381, 6382 or departmental permission.

7361. **Monetary Economics.** Analyzes various theories on the role of money in economic systems and the impact of the money market on economic aggregates and the price level.

7362. **Monetary Theory and Policy.** Discusses monetary institutions and the impact of monetary policies on the different segments of the economy.

### Industrial Organization

7341. **Market Structure, Conduct and Performance.** Studies the relationships between various market structures and their impacts on economic performance. *Prerequisites:* ECO 6384, 6394.

7342. **Imperfect Markets: Theory and Policy.** The study of models of imperfect markets, antitrust laws and other trade regulations, and their effects on economic performance.

### Public Finance

7351. **Public Finance Theory and Policy.** Covers theory and policy of taxation and public expenditures.

7352. **Public Finance at Local Levels.** Discusses fiscal problems of states and metropolitan areas.

### Independent Studies and Workshops

6101. **Internship for Master’s Students.** With approval from a faculty sponsor and the director of graduate studies, allows eligible students to analyze economic problems appropriate to the interning firm or organization. Requires, in addition, at the end of the term, for the student to write a short report about his or her experience under the supervision of the faculty sponsor and the director of graduate studies. Can be taken only twice. *Prerequisite:* 3.000 GPA in economics classes.


7101, 7201, 7301. **Readings in Economics.**

7004, 7304. **Preprospectus Workshop.** Analyzes research strategies of seminar speakers, faculty members and students. Requires each student to present a paper directly related to his or her own prospectus.

8000, 8100, 8398, 8698, 8998. **Dissertation Research.** Ph.D. candidates.

8101. **Internship for Ph.D. Students.** Allows, with approval from a faculty sponsor and the director of graduate studies, eligible students to analyze economic problems appropriate to the interning firm or organization. Requires, in addition, at the end of the term, for the student to write a short report about his or her experience under the supervision of the faculty sponsor and the director of graduate studies. Can be taken only twice. *Prerequisite:* 3.000 GPA in economics classes. The student should be a third- or fourth-year Ph.D. student who has earned 48 credit hours in the program.

8399, 8699, 8999. **Dissertation Research.** Ph.D. candidates.
ENGLISH

**Associate Professor** Nina Schwartz, **Department Chair**

**Professors:** Timothy Crusius, Dennis Foster, Ezra Greenspan, Ross Murfin, Jasper Neel, Willard Spiegelman, Steven Weisenburger. **Associate Professors:** Richard Bozorth, Darryl Dickson-Carr (Director of Graduate Studies), David Haynes (Director of Creative Writing), Michael Holahan, Beth Newman (Director of Women’s and Gender Studies), Timothy Rosendale (Director of Undergraduate Studies), Rajani Sudan, Marjorie Swann, Bonnie Wheeler (Director of Medieval Studies). **Assistant Professors:** Angela Ards, Tim Cassedy, Irina Dumitrescu, Jayson Gonzales Sae-Saue, Dan Moss, Martha Satz, Lisa Siraganian.

**Admission Requirements**

Applicants must have either an undergraduate major in English or a related field or intensive study in the liberal arts with a solid background in literature in English, normally with a GPA of at least 3.300 for M.A. applicants and 3.500 for applicants to the Ph.D. program. They must also submit scores for the GRE general graduate school admission test. In addition, a statement of purpose for graduate study and three letters of recommendation are required, along with a writing sample in which an argument on a literary topic is sustained for about 10 pages for M.A. applicants and 15 pages for Ph.D. applicants.

Proficiency in one foreign language is strongly recommended prior to matriculation in either program.

**Degree of Master of Arts**

**Degree Requirements**

The Master’s degree in English is for students pursuing the M.A. as a terminal degree. Students admitted to the M.A. program are required to take English 6310 Advanced Literary Studies and 27 additional hours, at least 12 of which must be at the 6000 level or above. For students who elect to write a thesis, six of these hours must be English 6398, 6399 (thesis). With departmental approval, six graduate hours in a related field may be substituted for courses in the English department. **Note:** The department no longer admits students to the creative writing specialization.

Before graduation, each candidate must pass an oral examination on a list of about 40 works related to a critical or thematic focus determined by the candidate in consultation with a faculty adviser.

**Degree of Doctor of Philosophy**

**Degree Requirements**

The Ph.D. in English requires 60 hours of courses, including classes, directed readings and dissertation hours. Core courses required of all students are English 6310 Advanced Literary Studies, English 6311 Survey of Literary Criticism and English 6312 Teaching Practicum. Students will also be required to complete workshops in teaching before the fall of their second year, in preparation for teaching undergraduate courses during that year and subsequent years of graduate study. In addition, students must take a minimum of six 7000-level seminars and will be expected to include in their program of study courses covering a wide range of fields. With permission, students may develop interdisciplinary approaches by taking up to two courses outside the English department.
Proficiency in one foreign language relevant to the student’s course of study is required and should be demonstrated prior to the term in which written exams are scheduled. For certain dissertation topics, a second language may be required. Further requirements include written exams in the fall of the fourth year of study, a dissertation prospectus and an oral defense of the prospectus during the spring term of the fourth year. The M.A. degree will be awarded after completion of these requirements. (Note: For students entering with the M.A., 12 hours (one year of coursework) may with permission be waived and the schedule above adjusted accordingly.)

Students who remain in good standing – with a GPA of at least 3.000, demonstrated ability to do work of appropriate quality in seminars, continuous progress in the program and the recommendation of an advisory committee – will receive fellowship support for six years. They will teach two courses a year for four years beginning in the second year of study, with either their fifth or sixth year serving as a dissertation fellowship year with no course requirements or teaching responsibilities. Exceptional students may be offered a one-year visiting assistant professorship in the English department after fulfilling all requirements for the Ph.D.

Students who leave the Ph.D. program after completing 30 hours and who have demonstrated proficiency in a foreign language will be allowed to take an exam in order to receive the M.A. degree. Any student who has demonstrated foreign language proficiency and achieves a GPA of 3.000 in 24 hours of coursework during the first year of study but does not receive the positive recommendation of the advisory committee to continue on to Ph.D. candidacy will be allowed to fulfill the requirements for the M.A. by enrolling in English 6398, 6399 and completing a thesis within the following 12 months.

The Courses (ENGL)

6049. Graduate Full-Time Status. A noncredit, independent course for students continuing work on an M.A. thesis.

6301, 6302. Directed Studies. Directed readings in an area of the student’s choice, to be approved by the director of graduate studies and the instructor.

6310. Advanced Literary Studies. Readings and practice in research methods and materials, bibliography and textual editing, and the history and practices of the profession. Required of all graduate students.

6311. Survey of Literary Criticism. Readings in criticism and theory from Aristotle through contemporary approaches. Required of all doctoral candidates.

6312. Teaching Practicum. Course in pedagogy for English teachers at the university level. Prerequisites: Graduate standing and appointment to a graduate fellowship in the English department.

6313. Rhetorical Theory. Selected major figures and movements from 1920 to the present in the context of the history of rhetoric, recent philosophy and literary theory.

Proseminars: ENGL 6320–6380. Open to Master’s and doctoral students and to advanced undergraduates with the permission of the instructor and the director of graduate studies.


6321, 6322. Readings in Medieval Literature. Prerequisite: Approval by the director of graduate studies and the instructor.

6330. Early Modern British Literature. Studies in major British writers and literary-cultural history from 1500 to 1775.

6340. British Literature in the Age of Revolutions. Studies in major British writers and literary-cultural history from 1775 to 1900.

6345. American Literature in the Age of Revolutions. Studies in major American writers and literary-cultural history from 1750 to 1900.


6373. Hispanic-American Literature. Studies in Hispanic-American literature and cultural history from colonial to contemporary.

6375. Sex, Gender and Literature. Studies of the constructions of sexuality and gender in literature and culture, informed by historical study and current theoretical work in such fields as feminism, gender studies and queer theory.

6380. History of Print Culture. A literary-historical survey of major developments, issues, formations and institutions in British and/or American print culture.


7311. Seminar in Literary Theory. Advanced study of a topic in literary theory.


7370. Seminar in Minority Literature. Advanced study of a topic in minority literature.


7374. Problems in Literary History. Advanced study of problems in literary history.

7376. Seminar: Special Topics. Advanced study of a literary topic that crosses traditional national boundaries.

7398, 7399. Directed Readings. Directed readings in preparation for qualifying exams and dissertation, to be approved by the director of graduate studies and the instructor.

8049. Graduate Full-Time Status. Graduate full-time status at the Ph.D. level.


WILLIAM P. CLEMENTS DEPARTMENT OF HISTORY

smu.edu/history

Professor Kathleen Wellman, Department Chair


Degree of Master of Arts

Admission Requirements

Candidates must have a minimum of 12 term hours of advanced-level undergraduate work in history and make acceptable scores on the GRE general graduate school admission test. If English is not the applicant’s native language, he or she must also
take the TOEFL English language proficiency test and score 550 or higher. Students must submit a statement of purpose, an example of their written work and official transcripts. Three letters of recommendation are also required. Prospective students must submit their applications and all supporting documents by February 1. Candidates must apply for specific admission to one of the fields of concentration offered. Students may begin the program only in the fall term.

The History Department normally requires a minimum 3.000 grade point average overall and a 3.000 average in history for admittance to the M.A. program. Provisional admission is possible in exceptional cases.

Candidates must present evidence of competence in a foreign language or take the history department foreign language examination given in September of the first term of graduate study. For specific fields, the department may require study of a necessary language (such as Latin or Greek for classical history) before actual entry. All students will be required to demonstrate reading ability in a foreign language before enrolling for thesis credit. In the case of a classical/medieval concentration, the student will be required to pass a translation exam in both a classical language and a modern language.

**Degree Requirements**

The Clements Department of History offers the M.A. degree in four fields of concentration:

1. United States history.
2. Ibero-American history.
3. Classical/medieval history.
4. European history from 1750 to the present.

In special circumstances, the graduate committee may authorize the study of some other major field of history.

Each student will be assigned a major adviser at entrance. The major adviser and the History Department’s director of graduate studies will work with each student to plan a specific course of study, which may include up to six credits in fields or departments outside the major field of study.

Students are required to earn 30 term hours of credit at the 5000 or 6000 level. A 6000-level course can include participation in an undergraduate major history course at the 3000 level, together with additional requirements that the instructor assigns. The structure of programs includes:

1. **HIST 6300** Historiography (three credits).
2. Two colloquia or reading courses at the 5000 or 6000 level in the field of concentration (six credits).
3. One course at the 5000 or 6000 level designated as a research course (three credits).
4. Four additional courses at the 5000 or 6000 level (two each term) in the History Department or courses in other departments or fields as approved by the major adviser and director of graduate studies (12 credits).
5. Two thesis courses, **HIST 6398, 6399** (six credits). At the completion of these courses and upon satisfaction of the language requirement, students will take an oral examination in a major field based in part on the specific courses the student has completed. The examination committee will consist of three
members of the department. A unanimous positive vote of the committee is necessary for the student to pass the qualifying examination. After passing the examination, all students will write, present and defend a thesis (and enroll in the two thesis courses). The thesis will demonstrate ability to define and analyze a historical problem, mastery of the pertinent historiography, and understanding of the methodological issues posed by the problem. It must also make significant use of primary source material.

**Degree of Doctor of Philosophy in American History**

*Offered in conjunction with the William P. Clements Center for Southwest Studies*

**Admission Requirements**

All applicants must have a Bachelor’s degree from an accredited college or university (students from abroad must hold the equivalent degree), with a minimum grade point average of 3.000, and have completed at least 12 advanced hours in history. Applicants must submit GRE graduate school admission test scores. If English is not the applicant’s native language, he or she must also take the TOEFL English language proficiency test and score 550 or higher. Students must submit a statement of purpose, an example of their written work and official transcripts. Three letters of recommendation are also required. In addition, applicants should possess a foundation in Spanish sufficient to enable them to pass an examination in translation from Spanish to English in September of the first year of study. Prospective students must submit their applications and all supporting documents by February 1.

**Degree Requirements**

**Historiography** (three credits). In the first term, students will take HIST 6300, a historiography course that introduces them to the professional study of history. Readings vary from year to year, but cover a broad range of methodologies, perspectives and topics. The course also addresses historical writing, research techniques and historical sources.

**American (U.S.) History** (24 credits). The major field in American history offers broad preparation. During the first two years, students take a sequence of four courses based upon intensive readings in American history (12 credits) from the era of Indian-European contact to the present, in order to acquire a mastery of the historiography of the field. The colloquia emphasize new problems, interpretations and debates vital to the study of American history. In addition, students take four specialization courses (12 credits) that may vary in both content and method; these take the form of graduate courses, graduate/senior-level reading seminars and/or individual directed readings. According to individual interests and requirements, one or two of these courses may be taken in another department.

**The Southwest and Mexico** (12 credits). Students also will develop a field in Southwestern/Mexican history by taking a minimum of 12 credits of coursework. A research seminar (three credits) and a colloquium (three credits) on the Southwest or Mexico comprise half of the field. The remaining courses (six credits) should be chosen in consultation with the adviser. Students who have completed a seminar and colloquium on Mexico might take these six hours in Southwestern history (including Mexican-American, Western or Native-American history), whereas students who have completed their seminar and colloquium on the Southwest might take these six
hours on Mexico. Students may also wish to enrich their historical understanding of the region by taking courses in other fields such as anthropology, literature or religious studies. Then, too, the program offers unusual opportunities for students to broaden and deepen their knowledge of this dynamic field of inquiry. The resources include the Clements Center for Southwest Studies, with its symposia, research fellows and distinguished visitors; SMU’s DeGolyer Library, a repository for a remarkable collection of books and manuscripts on Mexico and the Southwest; and the Meadows Museum of Art, which houses one of the world’s finest collections of early modern Spanish art outside of Spain.

**Global and Comparative History** (12 credits). The third field, in global and comparative history (12 credits), places the American experience in larger contexts by introducing students to the theoretical and conceptual frameworks that have guided advanced research in recent decades. The field also provides broad interdisciplinary perspectives on particular topics of global significance. Students begin this field of study by taking a colloquium (three credits) that explores influential methodologies and theoretical perspectives in global theory and comparative history, including the Annales school, world-system and dependency analysis, cross-cultural approaches, ecological history, postcolonial, and comparative methods. These are followed by three specialized courses (nine credits) that treat individual topics and themes in comparative contexts. Topics and themes include urbanization, migration, industrialization, revolution, slavery and gender roles.

**Ph.D. Research Paper Requirement.** Students will write two substantial research papers during the first two years of study. The goal is to produce significant work based on primary sources and of a quality comparable to an article in a scholarly journal.

**Qualifying Examination.** An oral examination on three fields of concentration will be taken in the spring term of the third year of study.

**Teaching Practicum** (noncredit). A study of methods and content in the teaching of history is coupled with classroom teaching experience.

**Dissertation** (three credits). Upon completion of the dissertation, a formal defense is conducted before an examination committee of four faculty.

**Teacher Preparation**

Learning to be an effective instructor is a vital part of the Ph.D. program. The centerpiece of teacher preparation, to occur in the fourth year, is a mentoring program tailored to the interests and needs of each student. Students will work closely with a professor in the planning and teaching of an individual course. They will also meet with the professor to discuss topics related to teaching and participate in the teaching assistant seminar offered by SMU’s Commission on Teaching and Learning and the Office of Research and Graduate Studies. Finally, students themselves will teach a course at SMU or a cooperating institution.

**Fellowships**

The History Department will award fellowships to all students accepted into the Ph.D. program. Funding is guaranteed for a period of five years for those whose work remains excellent. Fellowships include tuition, fees, health insurance and an $18,500 stipend for the academic year. In addition, the Clements Department of History has resources available for travel to professional conferences and to research archives.
The Courses (HIST)

5330, 5331. Seminar in Mexican-American History. An examination of the growing historiography on Mexican Americans. Focuses on the relationship between their ethnic identity and the Southwest. (also listed under Latin American history)


5344. American Cultural History. The histories of cultural institutions, objects, ideas and practices. Explores an array of representative cultural conflicts and obsessions that have marked American history.


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. 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 historiographical writing that shape the 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. 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–Present. Considers two attempts to revive Europe from the effects of disastrous world wars, as well as the sources of new vigor it has found in the past 30 years.

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 the Enlightenment, 1715–1789. A study of society and culture in 18th-century Europe, Enlightenment philosophies, rococo art, the classical age of music, enlightened despotism and the coming of the French Revolution.


5390. Seminar in Russian History. Advanced seminar covering selected topics in late imperial and Soviet history.

5391. Athenian Democracy. The development of democratic government in Athens and the functioning of that government in peace and in war.

5392. Seminar in European History. Intensive examination of major topics.

5395. A History of Iran. This seminar introduces students to the history, cultures, and peoples of Iran to familiarize them with this complex and increasingly important country.

5397. Seminar in Asian History. Intensive examination of major topics in Asian history.

6000. Research.

6034. Teaching Seminar. Noncredit teaching seminar for graduate students.
6049. Graduate Full-Time Status, Master’s Level.

6300. Historiography. Required of all candidates. Designed to familiarize graduate students with the tools of historical research, the discipline’s methodology and the problems of historical writing.

6301. Colloquium in Early American History. A readings course covering the major problems in American history between 1500 and 1812.

6302. Colloquium in American History, 1812–1877. A readings course covering the major problems in American history from 1814 to 1877.

6303. Colloquium: Late 19th/Early 20th Century America. A readings course covering the major problems in American history between 1877 and 1932.

6304. Colloquium: Modern America, 1929–Present. A readings course that covers major issues in modern American history from the onset of the Great Depression roughly to the present day.

6305. Colloquium: The Hispanic Southwest. A readings seminar that introduces graduate students to ways that scholars have interpreted the Southwest’s Hispanic past under Spain and Mexico and the ongoing Hispanic presence in the region after 1848.


6315. Global/Comparative History: Methods and Theories. A colloquium exploring various techniques of research and analysis used by contemporary scholars to investigate major historical problems from a global or comparative perspective.


6318. Comparative History of Women. Comparative study of women’s history in antiquity, East Asia, the Islamic world, Europe and/or the United States, with an introductory section on the theory of women’s history and one or more thematic sections on topics such as politics, sexuality and work.

6321. Seminar: Global/Comparative History. An examination of major topics in global and comparative history.

6322, 6323. Readings in History. Directed readings on specific problems or themes formulated by the student with faculty guidance.

6324. Readings in History. Directed readings on specific problems or themes formulated by the student with faculty guidance. Prerequisite: 12 term hours of graduate work.

6325. Colloquium: History of New Spain and Mexico. A readings seminar designed to address main themes and historiographical issues in the history of Mexico since the 16th century. Prerequisite: Reading knowledge of Spanish.


6327. Research on the Southwest as a Region. Using a variety of historical approaches and methods, an investigation of regionalism as a national and transnational concept describing the Southwest. Requires each student to produce a lengthy paper based on primary research.

6331, 6332. Problems in United States Foreign Relations. Major problems in American foreign relations from the revolutionary era to the present.

6335. Problems in United States Social and Cultural History to 1877. An examination of American cultural development in its social context from the colonial period to 1877.

6336. Problems in United States Social and Cultural History Since 1877. An examination of American cultural development in its social context from 1877 to the present.

6337, 6338. Problems in U.S. Political History. An examination of major topics.
6341, 6342. History of European Ideas. Major themes in European intellectual developments from the Renaissance to the present.

6343, 6344. Problems in Modern German History. Selected issues in the history of the German-speaking peoples from the Reformation to World War II.

6345, 6346. Problems in Early Modern European History.

6347, 6348. Problems in Recent Modern European History.

6349, 6350. Problems in Medieval History. Directed readings and analyses of selected medieval documents and secondary bibliography.

6352. Problems in Medieval Spanish History. Directed readings and analyses of selected medieval Spanish documents and secondary bibliography.

6353, 6354. Problems in the History of Spain and Portugal. Social, cultural and political themes characteristic of the Iberian Peninsula from Roman times to the present.

6355, 6356. Problems in Latin American History. Selected topics in Latin American history from the age of exploration and discovery to the mid-20th century.

6357. Problems in Mexican History. Major themes in the evolution of Mexican society and the place of Mexico in the history of the Americas.

6363. The American Civil War and Reconstruction. The nature, causes and impact of the American Civil War, with emphasis upon current historiographical issues.

6370, 6371. Colloquium in European History. A readings course covering the major problems in European history.

6372. The Apotheosis of Caesar and the Fall of the Roman Republic. The fall of the Roman republic and the rise of the empire as a direct consequence of the life and death of Julius Caesar.

6379. Colloquium in Ibero-American History.

6380, 6381. Colloquium in American History.

6383. Tudor-Stuart Britain. Political, social, economic and religious themes in British history from 1485 to 1714.

6385, 6386. Problems in British History. A readings course covering the major problems in British history.


6394. Practicum in Archival Methods and Administration. An individualized course designed to provide students with both theoretical and practical training in one or more archives and museums in the Dallas area.

6395. Practicum in Museum Studies. An individualized course designed to provide theoretical training and practical experience for students who hope to pursue museum-related careers. In tutorial and apprentice situations, introduces students to the history and philosophy of museums and their administrative and curatorial functions.

6396. Practicum in Oral History. Intensive practical training in oral history, emphasizing interviewing preparation and techniques, but with some attention to the technical processing of oral history interviews before these can be made available to researchers (gaining legal consent, transcribing, editing, indexing and final preparation).

6397. Practicum in the Teaching of History. A study of methods and content in the teaching of history. Special emphasis on actual teaching experience at the high school or college level.


7000. Teacher Preparation. A noncredit course for the teaching component of the doctoral program in which the student will work closely with a professor in the planning and teaching of an individual course.

7398, 7399. Research.

8049. Graduate Full-Time Status, Ph.D. Level.

MATHEMATICS

Professor Doug Reinelt, Department Chair


The Department of Mathematics offers M.S. and Ph.D. degrees in computational and applied mathematics.

Admission Requirements

Minimum requirements for admission to the graduate programs in mathematics are 18 hours in college-level mathematics courses beyond first- and second-year calculus (including differential equations, linear algebra and statistics). Undergraduate courses in numerical methods, partial differential equations, physics and computer science are particularly helpful, as would be familiarity with programming, specifically MATLAB. There is no foreign language requirement.

Both the M.S. and Ph.D. degree programs require GRE graduate school admission test scores (general exam only). Two letters of recommendation are required.

Financial aid is available in the form of teaching assistantships, which include the waiver of tuition and fees.

Degree of Master of Science

Degree Requirements

A total of 33 term hours of graduate course credit beyond the Bachelor’s degree (usually 11 graduate courses) are required for the Master’s degree, including at least 18 hours at the 6000 level (at least 12 of these hours to be taken in the Department of Mathematics). Candidates must complete two courses in computational mathematics (MATH 5315, 6316) and two courses in differential equations and their applications (MATH 5334, 6324). Of the remaining courses, a maximum of three approved courses can be taken from outside the department. An oral examination is required for graduation.

Degree of Doctor of Philosophy

Degree Requirements

To qualify for the Ph.D. degree, the student must fulfill the following requirements:

1. Satisfy all curricular requirements as specified by the departmental faculty.
2. Pass comprehensive written and oral examinations.
3. Complete a minimum of three years of graduate academic work, including at least one year in full-time residence on the SMU campus or at a research facility approved by the departmental faculty and the dean of the graduate program.
4. Write and make a successful defense of a dissertation.

Course requirements for the Ph.D. are flexible but must include the equivalent of 51 term hours of graduate course credit beyond the Bachelor’s degree (excluding dissertation work) and at least six credit hours of dissertation. The Ph.D. qualifying examination consists of a written examination based on individualized concentration courses in computational and applied mathematics and presentation of a paper (usually based on a reading course with a faculty member).
Mathematics

The Courses (MATH)

5315 (CSE 7365). 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. Emphasizes student use of the computer. Prerequisites: MATH 3315/CSE 3365, MATH 2343 and a programming course (such as MATLAB, C or FORTRAN).

5316. Introduction to Matrix Computation. The efficient solution of dense and sparse linear systems, least squares and eigenvalue problems. Uses elementary and orthogonal matrix transformations to provide a unified treatment. Programming in MATLAB with a focus on algorithms. Prerequisites: MATH 3353 and MATH 3315/CSE 3365.


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 1338, 2339, 3353 and MATH 3315/CSE 3365.


5353. Linear Algebra. Spectral theory of Hermitian matrices, Jordan normal form, Perron-Frobenius theory and convexity. Includes applications such as image compression, Internet page rank methods, optimization and linear programming. Prerequisite: MATH 3353.


6312. Advanced Perturbation Methods. Kuzmak’s theory of strongly nonlinear slowly varying oscillators and the methods of multiple scales and matched asymptotic expansions applied to partial differential equations such as those describing fluid dynamics and wave phenomena. Prerequisites: MATH 5334, 6311.


6316 (CSE 7366). Numerical Linear Algebra. The efficient solution of dense and sparse linear systems, least squares problems and eigenvalue problems. Elementary and orthogonal matrix transformations to provide a unified treatment. In addition to algorithm development, emphasizes the theory underlying the methods. Prerequisites: MATH 3353 or an equivalent undergraduate course in linear algebra and MATH 5315/CSE 7365 or consent of the instructor.


6320. Iterative Methods. Matrix and vector norms, conditioning, iterative methods for the solution of large linear systems and eigenvalue problems, Krylov subspace methods and preconditioning. Other topics to be chosen by the instructor. Prerequisites: MATH 6316/CSE 7366 and some programming experience.

Enphasizes practical solution of problems using MATLAB. **Prerequisites:** MATH 2343 and MATH 5315/CSE 7365.

**6324. Introduction to Dynamical Systems.** Nonlinear ordinary differential equations: equilibrium, stability, phase-plane methods, limit-cycles and oscillations. Linear systems and diagonalization. Periodic coefficients (Floquet theory) and Poincaré map. Difference equations (maps), period doubling, bifurcations and chaos. **Prerequisites:** MATH 2343, 3353.


**6333. Partial Differential Equations.** Method of eigenfunction expansion for nonhomogeneous problems. Green’s functions for the heat, wave and Laplace equations. Dirac delta functions, Fourier and Laplace transform methods and method of characteristics. **Prerequisite:** MATH 5334.

**6336 (ME 5336/ME 7336). Fluid Dynamics.** Preliminaries and concepts from vector calculus. The transport theorem, the Navier-Stokes and other governing equations. Dynamical similarity and Reynolds number. Vorticity theorems. Ideal and potential flow. The influence of viscosity and the boundary layer approximation. **Prerequisite:** MATH 3337 or MATH 5334.

**6337. Real Analysis.** Real and functional analysis, including the Lebesgue integral, Fourier series, Fourier integrals, Banach and Hilbert spaces. **Prerequisite:** MATH 4338 or approval of the instructor.

**6341. Linear and Nonlinear Wave Phenomena.** The mathematical theory of linear and nonlinear waves. Applications from water waves, traffic flow, gas dynamics and various other fields. Includes nonlinear hyperbolic waves (characteristics, breaking waves, shock fitting and Burger’s equation) and linear dispersive waves (method of stationary phase, group velocity and wave patterns). **Prerequisite:** MATH 5334.

**6342. Solitons and the Inverse Scattering Transform.** Nonlinear dispersive waves. The use of the direct and inverse scattering of the Schrödinger eigenvalue problem to obtain solitons and multiply-interacting solitons for the Korteweg-de Vries equation. Also, the Zakharov-Shabat eigenvalue problem for the nonlinear Schrödinger (envelope solitons) and sine-Gordon (kinks) equations. **Prerequisite:** MATH 6341.


**6348. Turbulence in Fluids.** A mathematical introduction to turbulence – the last great problem of classical physics according to Feynman. Kolmogorov’s 1941 theory, closures theories, shell models and similarity theories. **Prerequisites:** MATH 6324, MATH 5315/CSE 7365, MATH 5331 and MATH 5332 (or 5334). (MATH 6336 useful, but not necessary)

**6350. Mathematical Models in Biology.** Mathematical analysis and modeling of biological systems such as biomedicine, epidemiology and ecology. **Prerequisite:** Consent of instructor.

**6360 (EE 8332). Computational Electromagnetics.** Numerical methods for electromagnetics, with emphasis on practical applications. Numerical discretizations including the method of moments, finite differences, finite elements, boundary elements and fast multipole methods. **Prerequisites:** EE 7330 or MATH 5334 and proficiency in one computer language (such as FORTRAN) or permission of the instructor.

**6370. Parallel Scientific Computing.** An introduction to parallel computing in the context of scientific computation. **Prerequisites:** MATH 5315/CSE 7365 and MATH 6316/CSE 7366.

**6371. Numerical Bifurcation Theory.** A survey of basic nonlinear phenomena, including simple bifurcations, Hopf and Turing bifurcations, and bifurcation of periodic orbits in differential equations. **Prerequisites:** MATH 6337 or approval of the instructor.
6391. **Topics in Applied Mathematics.** Selected topics in the application of mathematical analysis to such fields as differential, integral and functional equations; mechanics; hydrodynamics; mathematical biology; and economics. *Prerequisite:* Permission of the instructor.

6395. **Topics in Computational Mathematics.** Selected topics of current interest. For example: numerical bifurcation theory, iterative methods for linear systems, domain decomposition and multigrid methods, numerical multidimensional integration, and numerical methods for multibody problems. *Prerequisite:* Permission of the instructor.

8398. **Dissertation.**

**MEDIEVAL STUDIES**

**Associate Professor** Bonnie Wheeler, **Director**

The M.A. in medieval studies is an interdisciplinary cultural studies degree program based in Dedman College and designed to encourage students to acquire not only strong disciplinary training but also broadly based sensitivity to medieval cultures, contexts and intellectual currents. It draws upon courses in the Western Middle Ages as well as upon Byzantine and Islamic subjects offered by other departments in Dedman College, the Meadows School of the Arts and the Perkins School of Theology. It may be taken as a terminal degree. It is also intended to serve students interested in pursuing a Ph.D. degree in a medieval field, since it will enable such students to gain a broad interdisciplinary acquaintance with the Middle Ages before narrowing their work to a specialized field at the doctoral level.

**Admission Requirements**

Prospective students will apply through the Office of Research and Graduate Studies and must meet the requirements outlined by that office.

**Degree Requirements**

Students must earn 30 term hours, with the following requirements:

1. Twenty-four hours to be taken in graduate-level courses and seminars, to be distributed in at least three broad subject areas in medieval studies: 1) history, 2) literature, and 3) music and visual arts. No more than 12 hours and no less than three hours may be applied in each area. Students are encouraged to take courses in philosophy, religious studies and church history when available.

2. Three hours in nonmedieval courses may be taken in the student’s major disciplinary area of concentration with approval of the director of Medieval Studies.

3. Competence, demonstrated by examination, in intermediate Latin and one other foreign or medieval language.

4. A thesis carrying six hours of credit linking materials and methods of more than one discipline, to be guided by a committee of the director of Medieval Studies and professors from the two major subject areas covered by the thesis.

**Curriculum**

Competence in intermediate Latin and one other foreign or medieval language must be demonstrated by examination. The Dallas Medieval Consortium makes it possible for SMU students to enroll in regularly offered advanced Latin courses at the University of Dallas.
A model program for a student interested particularly in historical discourse might include HIST 5364, 5370, 6385 and 5378. In addition, the student might take ENGL 6324, ARHS 6327, 6329 and HX 8321. A student primarily interested in literary discourse might take ENGL 6320, 6321, 6322; HIST 5364, 6352; ARHS 6322, 6324; and HX 8321. A student primarily interested in the visual arts might put together a very coherent program using ARHS 6322, 6324, 6325, 6320 in combination with HIST 6350, 5364; ENGL 6320; and HX 8308. Regularly offered courses include the following:

**In Dedman College**

- **ENGL 6320** Medieval Literature (studies in medieval literary-cultural history through 1500)
- **ENGL 6321** Readings in Medieval Literature
- **ENGL 6322** Readings in Medieval Literature
- **FREN 5320** Literary Periods (when applicable)
- **FREN 5370** Seminar in French Literature (when applicable)
- **HIST 5364** City of God: Utopias in Christian Tradition
- **HIST 5370** Seminar in French History: History of France I (Paleolithic–1461)
- **HIST 5378** Medieval Renaissances
- **HIST 6349** Problems in Medieval History
- **HIST 6350** Problems in Medieval History
- **HIST 6352** Problems in Medieval Spanish History
- **HIST 6385** Problems in British History (when applicable)
- **MDVL 5301, 5302, 5398, 5399** Independent Studies
- **MDVL 6398, 6399** Thesis
- **SPAN 5310** Spanish Literature Before 1700

**In Meadows School of the Arts**

- **ARHS 5320** Seminar in Medieval Art (topic TBA)
- **ARHS 5322** Seminar in “Convivencia”
- **ARHS 6320** Medieval Art and Architecture
- **ARHS 6324** Art and Cultures of Medieval Spain
- **ARHS 6322** Islamic Art and Architecture
- **ARHS 6323** Romanesque Art and Architecture
- **ARHS 6324** Art and Cultures of Medieval Spain
- **ARHS 6325** The Gothic Cathedral
- **ARHS 6328** Byzantine Art and Architecture
- **ARHS 6399** The Jewish-Christian Dialogue in Art and Text
- **MUHI 6309** Seminar in Medieval and Renaissance Musical Styles
- **MUHI 6331** History of Theory From the Greeks to the 15th Century
- **MUHI 6362** Analysis of Pretonal Music
- **MUHI 6392** Directed Studies in Music History: The Middle Ages

**In Perkins School of Theology**

- **HX 7342** Passion-ate Spirituality
- **HX 8308** Varieties of Medieval Theology
- **HX 8321** History of Christian Doctrine
- **HX 8357** Monotheistic Mysticism
- **HX 8359** Art and Devotion in Medieval Spain
- **HX 8387** Readings in Spanish Mysticism
PHYSICS

Professor Fredrick Olness, Department Chair


Degree of Master of Science

M.S. in Physics

Students enrolled in this program must complete either 33 term hours of approved graduate coursework or 30 term hours of courses, including a research thesis. Every student’s degree plan must contain at least 18 term hours of graduate-level work in physics, including a prescribed sequence of three courses. Students also must pass an examination on the coursework and, if applicable, defend their thesis.

Degree of Doctor of Philosophy

Ph.D. Program

Candidates for the Ph.D. degree must satisfactorily complete eight specified core courses, four elective graduate courses in physics, a minimum of 12 credit hours of research and a dissertation. Students also must pass a comprehensive doctoral examination, which is a written examination on both classical and modern physics, typically taken near the end of the second year of the program. Upon passing this examination, the student formally is classified as a Ph.D. candidate.

The Courses (PHYS)


5380. Concepts of Experimental Particle Physics. Principles of elementary particle physics and the experiments by which physicists learn laws obeyed by these particles, with reading of scientific articles. 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. Studies both the wave- and matrix-mechanics approaches, as well as a brief introduction to the Dirac formalism. Discusses solutions to the Schrödinger equation for a variety of one-dimensional problems and for the hydrogen atom. Prerequisites: PHYS 3305 and MATH 3353.

5383. Advanced Quantum Mechanics. Applications and approximation methods in quantum mechanics. Applications to laser physics, solid-state physics, molecular physics and scattering. Prerequisite: PHYS 5382 or permission of the instructor.

5384. Quantum Physics II. Quantum statistics; band theory of solids; superconductivity, magnetism and critical phenomena; nuclear physics; and physics of elementary particles. Prerequisite: PHYS 5383 or permission of the instructor.

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 the 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 5382.

5398. **Applications of Quantum Mechanics.** Uses the principles of quantum theory in a study of radiative transition in atoms and molecules, quantum statistics, band theory of solids, semiconductor theory, and laser physics. **Prerequisite:** PHYS 5382 or equivalent.

6321. **Classical Mechanics.** Topics in classical mechanics including the mechanics of a system of particles, the two-body central-force problem, Lagrange’s and Hamilton’s formulations, special theory of relativity, Hamilton-Jacobi theory, and continuous systems and fields.


6335, 6336. **Quantum Mechanics.** Fundamental principles of quantum theory with applications to one-dimensional problems, the free particle and the hydrogen atom, and the spinning electron. Perturbation theory with applications to atomic spectra, systems of identical particles, scattering theory and Dirac theory of the electron. **Prerequisites:** PHYS 5382 or equivalent and MATH 3333.

6338. **Condensed Matter Physics.** Plasmons, polaritons and polaron. Optical properties of solids. Superconductivity. Atomic and collective magnetism. Atomic and collective electrical phenomena. **Prerequisite:** PHYS 5337 or permission of the instructor.

6341. **Nuclear Physics.** General properties of the nucleus, the two-nucleon problem, radioactivity, beta decay, interaction of charged particles and radiation with matter, detection methods, nuclear models, nuclear reactions, and neutron physics. **Prerequisite:** PHYS 6335 or permission of the instructor.

6351. **Statistical Mechanics.** Derivation of classical and quantum statistical distribution functions, partition functions, the laws of thermodynamics, ensemble theory and applications to gases and solids.

6361. **Selected Topics in Physics.**

6398, 6399. **Thesis.**

7170. **Current Topics in Physics.**

7305. **Methods of Theoretical Physics.** Mathematical methods, theory of analytic functions, evaluation of integrals, linear vector spaces, special functions, integral equations, tensor analysis, calculus of variations and group theory. **Prerequisites:** Working knowledge of complex variables, Fourier transforms and partial differential equations.

7311, 7312. **Electromagnetic Theory.** Boundary-value problems in electrostatics, dielectrics, magnetic media, Maxwell’s equations, electromagnetic waves, refraction and reflection, wave guides, and cavities. Electromagnetic radiation, diffraction and interference, plasma physics, special relativity, dynamics of charged particles and multipole expansion. **Prerequisite:** PHYS 5393 or permission of the instructor.

7314. **Quantum Field Theory I.** Classical fields, symmetry transformations and conservation laws, the quantum theory of radiation, relativistic quantum mechanics of spin-1/2 particles, second quantization, and the theory of interaction fields. Covariant perturbation theory, collision phenomena in quantum electrodynamics and renormalization. **Prerequisite:** PHYS 6336.

7315. **Quantum Field Theory II.** Path integral formulation, renormalization group, symmetry structure, formal aspects and nonabelian gauge theories. **Prerequisite:** PHYS 7314 or permission of the instructor.

7321. **Atomic Physics.** The central-field model of atomic structure, the Hartree methods, angular momentum and the vector model of the atom; antisymmetry and the determinantal method; theory of multiplets; and magnetic properties of atoms. **Prerequisites:** PHYS 6336 or working knowledge of quantum mechanics and permission of the instructor.

Coherent pulse propagation. Nonlinear optical processes. **Prerequisite:** PHYS 6336 or working knowledge of quantum mechanics and permission of the instructor.

**7341. Theoretical Nuclear Physics.** Properties of nuclear forces, many-body theory of nuclear models and analysis of scattering experiments. Interaction between nucleons and radiation, pion physics, and weak interactions. **Prerequisites:** PHYS 6336, 6341.

**7350. General Relativity.** Einstein theory, black holes, gravitational waves and cosmology. **Prerequisite:** PHYS 6321 or permission of the instructor.

**7360. Elementary Particles I.** Physics of the standard model, quarks and leptons, internal symmetries, and grand unified theories. **Prerequisite:** Permission of the instructor.

**7361. Elementary Particles II.** Continues 7360 with emphasis on current topics. **Prerequisite:** PHYS 7360 or permission of the instructor.

**8100–8900. Research.**

**8361, 8362, 8363. Special Topics in Physics.**

**8398, 8399. Dissertation.**

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**PSYCHOLOGY**

**Professor** Ernest Jouriles, **Department Chair**

**Professors:** Alan Brown, George W. Holden. **Associate Professors:** Robert Hampson, Alicia Meuret, Renee McDonald, Thomas Ritz, David Rosenfield, Jasper Smits. **Assistant Professors:** Austin Baldwin, Chrystyna Kouros, Georita Frierson, Amy Pinkham, Lorelei Simpson Rowe.

**Doctor of Philosophy in Clinical Psychology**

The Ph.D. program in clinical psychology is a 70-hour program designed to prepare a student for a professional career in research, teaching and/or the clinical applications of empirically supported psychological methods. The major requirements for the Ph.D. degree consist of departmental research requirements, coursework, practica and a formal clinical internship.

**Research Requirements and Qualifications for Candidacy**

Students are expected to conduct research throughout their enrollment in the clinical psychology doctoral program. To facilitate their involvement and training in research, the program will include several “research benchmarks” that students must complete prior to graduation. Research benchmarks must be completed in accordance with the Dedman College graduate catalog.

**Research Benchmarks**

1. **First-Year Research**

   It is expected that first year students will work on a research project with their faculty adviser. This research experience should provide students with exposure to a research area and help shape the skills necessary to develop hypotheses, analyze data and communicate the results. Faculty advisers will be responsible for determining whether their students are performing satisfactorily with respect to their research.

2. **Thesis (First Research Benchmark)**

   Toward the end of the summer of their second year in the program (July 31), students will be expected to complete an empirical research project that will constitute their thesis. Students must complete an oral defense of a thesis proposal (prior to initiating thesis research) to a thesis committee consisting
of three faculty members (with at least two of these committee members being
tenured or tenure-track faculty from SMU’s Department of Psychology) The
thesis proposal is expected to occur during the summer of the student’s first
year in the program, or the fall of the second year.

The final thesis will be in the form of a manuscript (authored by the student)
written in a way that is suitable for submission to a professional journal.
Students must complete an oral defense of the completed manuscript to their
thesis committee.

It is expected that the student’s thesis research will eventually be submitted
for publication. It is expected that the publication of this research will be done
in conjunction with the faculty adviser.

3. **Presentation of Research at a Professional Conference or Publication of
   Research in a Professional Journal (Second Research Benchmark)**

   Toward the end of the summer of their second year in the program (July 31),
   students will be expected to have presented research, as first author, at a
   professional conference (poster or paper presentation) or to have their
   research accepted for publication, in press, or published (as any author) in a
   professional journal. This needs to be research completed while they were a
   student in the clinical psychology Ph.D. program at SMU. It is expected that
   the presentation and/or publication of this research will be done in
   conjunction with the faculty adviser.

4. **Review Article (Third Research Benchmark)**

   To demonstrate in-depth knowledge of their research area and to demonstrate
   their capability to interpret and synthesize theories and data in this area,
   students will write a review article in the tradition of a *Psychological Bulletin*
   article. The final version of this review article will be completed by middle of
   their third year (January 15). Students are encouraged to consult articles by
   Psychological Bulletin”), and Maxwell and Cole (1995), *Psychological Bulletin,
   118, 193–198 on “Tips for Writing (and Reading) Methodological Articles.”

   Students must form a committee to approve the review article. The committee
   must consist of at least two faculty members (with one being the student’s
   faculty adviser).

   Students should submit an outline (no more than 10 pages) to the committee
detailing the purpose and content of the review. Following the approval of the
outline by the committee, the writing of the review article must be completed
without any editing. Students and faculty may discuss the nature of the review
article, but editing by faculty or any other person than the student at any level
of detail is not allowed. The initial submission is due to the committee on
November 15 of the student’s third year, followed by a 15-day review period by
the committee. The student will receive a written review from each committee
member. The student then has 45 days to complete the revisions (again, with
no editing), such that the final product is due by January 15. A committee
decision determines whether the final product is a passing one.
If it is deemed appropriate, the review article may serve as the basis for the introduction to the student’s dissertation.

5. **Dissertation (Fourth Research Benchmark)**

The dissertation is an original empirical research project with the potential to contribute to the knowledge base in the area of clinical psychology. Before a student can officially begin the dissertation, the student must be advanced to candidacy (described below). Students must formally propose the project to the dissertation committee. The dissertation committee shall consist of 1) the faculty adviser, who will serve as chair, 2) at least two other tenured or tenure-track faculty from the Department of Psychology, 3) and at least one external reviewer who is either a faculty member outside of the Department of Psychology, or with the approval of the department chair and the graduate dean, a scholar not associated with SMU. For all candidates, the faculty adviser must be a tenured or tenure-track faculty member. Successful completion of the dissertation will be determined by an oral defense before the student’s dissertation committee.

It is expected that all students will propose their dissertation toward the end of their third year (July 31).

**Qualifying Examination**

The comprehensive or qualifying exam will include three performance-based components to determine whether students have mastered their area of research interest. Students are required by University regulations to complete their qualifying exam by the end of their third year in the program. These components are comprised of research benchmarks 1, 2 and 3. An extension of one year may be granted by the dean in exceptional circumstances upon submission of a petition that is endorsed by the department.

**Candidacy Requirements**

Candidacy requirements consist of completion of the first three research benchmarks. Students must also complete the core clinical courses to qualify for advancement to candidacy (PSYC 6324 Clinical Research Issues and Methods, PSYC 6314 Seminar in Adult Psychopathology, PSYC 6351 Theories and Methods of Psychotherapy, PSYC 6353 Integrative Psychological Assessment, and PSYC 6360 Ethics in Psychology). Advancement to candidacy is necessary for students to initiate dissertation research and to apply for an internship. Students are required to complete their candidacy requirements by the end of their third year (August 31) in the program. An extension of one year may be granted by the dean upon submission of a petition endorsed by the department.

**Required Courses (51 hours)**

- **PSYC 6091–6098** Integrated Practicum Seminar
- **PSYC 6305, 6307** Quantitative Methods I, II
- **PSYC 6310** History and Systems in Psychology
- **PSYC 6311** Seminar in Social Psychology
- **PSYC 6312** Seminar in Developmental Psychology
- **PSYC 6314** Seminar in Adult Psychopathology
- **PSYC 6316** Seminar in Cognitive Psychology
- **PSYC 6317** Seminar in Physiological Psychology
PSYC 6324 Clinical Research Issues and Methods
PSYC 6351 Theories and Methods of Psychotherapy
PSYC 6353 Integrative Psychological Assessment
PSYC 6355 Methods of Psychotherapy/Assessment (summer lab)
PSYC 6358 Multicultural Diversity
PSYC 6357 Seminar in Interviewing Skills
PSYC 6360 Ethics in Psychology
PSYC 6398 Thesis
PSYC 7091–7098 Clinical Practicum
PSYC 8396 Dissertation
PSYC 8091, 8092 Internship I, II

**Elective Coursework (19 hours)**

These courses can be taken from Psychology Department courses at the 6000 level or above. Courses from other departments or schools can be taken with approval of the director of graduate studies.

**Clinical Practica**

Students will participate in practicum training beginning in their second year. Purposes of clinical practica are to:

- Offer students training/supervision/experience in the use of empirically supported methods of intervention and assessment.
- Expose students to nonacademic sites in which psychological research is conducted.
- Offer students training/supervision/experience in working with a variety of clients/patients.

**Grade Point Average**

To be in good standing in the Ph.D. program, each student is expected to obtain a grade of *B* or better in each course. A course with a grade of *C* must be retaken. Two or more courses with a grade of *C* may result in dismissal.

**Periodic Performance Reviews**

Each student’s performance will be reviewed each year, assessing performance in research, clinical skills and assigned duties.

**The Courses (PSYC)**


6305. Quantitative Methods I. Introduction to basic statistical procedures used for experimental research, including descriptive statistics, hypothesis testing, analysis of variance and nonparametric tests. Special emphasis placed on understanding the theoretical basis underlying the statistical tests, as well as the use of packaged statistical programs.

6307. Quantitative Methods II. The application of multivariate statistical techniques to the analysis of psychological data. Covers varied techniques, but may include multiple regression, multivariate multiple regression, logistic regression, ANCOVA, MANCOVA and mediation analysis.

6309. Seminar in Health Psychology. Current theories and research in health psychology.

6310. History and Systems in Psychology. Review of major historical and theoretical models and trends in the field of psychology.

6312. Seminar in Developmental Psychology. Current theories and research in developmental psychology.

6314. Seminar in Adult Psychopathology. Examines concepts, theory and empirical research regarding the nature, course and classification of adult psychopathology. Examines topics from a variety of perspectives, including issues of culture and diversity.

6316. Seminar in Cognitive Psychology. An in-depth examination of selected topics in the general areas of human learning, memory, thinking and related experiences.

6317. Seminar in Physiological Psychology. An integrative overview of the field of psychophysiology of the somatic and autonomic nervous system for the study of psychological processes in health and disease. Includes hands-on experience with measurement techniques.

6318. Seminar in Sensation and Perception. Physical stimuli, physiological receptors and psychological processes involved in extracting information from the physical world.

6322. Scientific Psychology Issues II. Advanced topics in analytic techniques for psychological data. Varied topics that may include longitudinal data analysis, HLM (MLM), survival analysis and/or structural equation modeling.

6324. Clinical Research Issues and Methods. A basic background in the tactics of research design. Focuses on nonstatistical issues such as external validity, internal validity and how to apply such knowledge.

6325. Psychological Research Methods and Assessment With Hispanic Populations. Methodological issues involved in conducting Hispanic-targeted research and assessment, such as ethnic identification, linguistic issues, sampling, instrument design, data collection, analysis and data interpretation.

6334. Seminar in Developmental Psychopathology. Advanced seminar examining theories and data on psychopathology in childhood and adolescence.

6340. Psychobiology of Emotion. An empirically based foundation in the psychobiological processes involved in human emotion, including anger, fear, anxiety and depression. Provides knowledge that will serve as an important foundation underlying interventions for clinically elevated levels of these emotions.


6352. Theories and Methods of Group Psychotherapy. Discussion and major theoretical perspectives and training in techniques in group psychotherapy. Ethics of group psychotherapy.

6353. Integrative Psychological Assessment. Application of psychological methods to the study of the individual, rationale of test construction and interpretation, problems in the prediction of human behavior, and theory and practice in psychological assessment techniques to measure personality and behavior. Focuses on the integration of diverse sources of data to better inform psychodiagnostic decision-making.

6354. Assessment Practicum. On-campus supervised experience in administration, scoring, interpretation and reporting of cognitive, achievement and objective personality measures for adults and children.

6355. Methods of Psychotherapy/Assessment. A summer lab course preparing students for interviewing and assessment skills prior to their off-campus practicum. Also covers cultural differences in the delivery of services.

6356. Theories and Methods of Couple Therapy. Introduction to theories of couple relationships; theory and practice of empirically supported couple therapies; and special topics in couple therapy, including ethics and diversity. Includes research in these areas.

6357. Seminar in Interviewing Skills. A course that teaches through didactic and experiential methods techniques and methods of client interviewing, basic supportive counseling skills, the importance of understanding multicultural issues, and effective communication and planning of therapy sessions.
6358. Multicultural Diversity. Focuses on appreciation for cultural, ethnic, religious and sexual-orientation group differences while emphasizing mental health and counseling service delivery.

6360. Ethics in Psychology. Reviews the current ethical code of conduct followed by professional psychologists. Discusses ethical principles in terms of their legal, social and philosophical relevance.

6362, 7361, 7362. Advanced Special Topics.

6371, 6372. Research in Psychology. Supervised individual empirical research on selected problems. Requires that a research proposal must be submitted to and approved by the instructor before admission.

6398. Thesis.

7091–7098. Clinical Practicum Credit.

7171. Research.

7172. Research.

7271. Research.

7272. Research.

7371. Research.

7372. Research.

8105. Research.

8396, 8397. Dissertation.

RELGIOUS STUDIES

Professor Bruce Marshall, Director of Graduate Program


Goals

The Graduate Program in Religious Studies comprises programs of study leading to the M.A. and Ph.D. degrees. The primary goal of both degree programs is to prepare persons for academic leadership in the field and hence for professional careers as teacher-scholars in colleges, universities and schools of theology. The M.A. degree program also aims to accommodate the qualified nonprofessional student interested in advanced work in religious studies within the context of the liberal arts and sciences.

Areas of Study

Students in the Graduate Program in Religious Studies specialize in one of the following six fields of study:

3. The Christian tradition.
5. Religious ethics (Christian ethics).
6. Religion and culture.
Admission Requirements

The requirements for admission to both the M.A. and the Ph.D. degree programs are the same and are, specifically:

1. The B.A. degree or its equivalent from an accredited institution.
2. A cumulative grade point average of 3.000 or above on a 4.000 scale.
3. A satisfactory score on the GRE general graduate school admission test, ordinarily including a combined score of 1200 or greater on the verbal and quantitative sections.
4. Sufficient previous study in religion or related areas to be able to satisfy the requirements of the degree program.
5. When English is not the applicant’s native language, a satisfactory TOEFL English language proficiency test score also is required: paper-based version, 550 or better (preferably 600 or above); computer-based version, 213 or better (preferably 250 or above); or Internet-based version, 79–80 or better (preferably 100 or above).

The deadline for completed applications is January 15.

Degree Requirements

Degree of Master of Arts

1. Satisfactory completion of 30 credit hours of approved coursework, including the four courses of the core seminar in religious studies: RELI 6301 The Philosophical Study of Religion; RELI 6302 Approaches to Asian Religion; RELI 6303 History, Theory and Method in Religious Studies; and RELI 6304 Contemporary Approaches to the Study of Religion.
2. Demonstrating, by examination, a reading competence in an approved language, other than English, relevant to the field of study.

The student is encouraged to develop an area of concentration in his or her 18 hours of undesignated coursework. A maximum of six credit hours may be taken in independent study courses. Concentrations in areas of scholarship represented primarily in the Department of Religious Studies in Dedman College are especially welcome. Students whose main interests are in areas represented in the typical theological curriculum are advised to consider the Master of Theological Studies degree in Perkins School of Theology as an alternative to the M.A. degree in the Graduate Program in Religious Studies.

Degree of Doctor of Philosophy

1. Satisfactory completion of 48 credit hours of approved coursework, including the four courses of the core seminar in religious studies: RELI 6301 The Philosophical Study of Religion; RELI 6302 Approaches to Asian Religion; RELI 6303 History, Theory and Method in Religious Studies; and RELI 6304 Contemporary Approaches to the Study of Religion.
2. Demonstrating, by examination, a reading competence in two approved languages, other than English, relevant to the field of study. (For students in the two fields of biblical studies, four languages are required. Examinations must be passed in both Hebrew and Greek as well as in two additional languages.)
3. Passing four comprehensive field examinations on the subjects designated for examination in the student’s field, each consisting of a six-hour written examination based on the bibliography agreed upon with the examiner.
4. Securing the steering committee’s approval of a dissertation proposal endorsed by the student’s adviser, two other members of the Graduate Program in Religious Studies faculty and one reader from outside the Graduate Program in Religious Studies faculty.
5. Satisfactorily meeting the practice teaching requirement.
7. Passing an oral examination covering the student’s entire course of study as well as the dissertation.

Languages

All students are expected to demonstrate a reading competence in at least one approved language other than English upon matriculation, by passing an examination in that language in the August examination period preceding the first term of study. Ph.D. students will be expected to pass an examination in a second approved language by the beginning of the second year. (For students in the two biblical fields, the examination in the second language is to be taken no later than May of the first year.) The approved languages in which examinations may be taken in both degree programs are French, Spanish, German, Greek, Hebrew and Latin. Another pertinent language may be substituted with the approval of the steering committee. It is strongly recommended that Ph.D. students enter the program with a solid reading knowledge of the two (or more) languages in which they expect to be examined, since there is little time or opportunity for basic language acquisition during graduate study.

The Courses (RELI)

6301. The Philosophical Study of Religion. The work of this seminar will focus on aims, methods and problems in the philosophical study of religion.

6302. Approaches to Asian Religions. This seminar is a historical and theoretical inquiry into Asian religions. These traditions will be investigated through three broadly defined methods or theoretical approaches: textual studies, anthropology and social/intellectual history.

6303. History, Theory and Method in Religious Studies. This course will introduce several of the principal approaches to the study of religion in the post-Enlightenment West, focusing on canonical thinkers from various disciplines, especially anthropology, sociology and psychology.

6304. Contemporary Approaches to the Study of Religion. This seminar provides an orientation to the critical study of religion in its contemporary context, with specific attention to emerging issues and modes of inquiry.

6398, 6399. M.A. Thesis.

8100. Dissertation Research.

Independent and Directed Studies

RELI 7300–7309 Philosophy of Religion
RELI 7310–7319 Philosophical Theology
RELI 7320–7334 Religion and Culture
RELI 7335–7349 History of Christianity
RELI 7350–7364 Systematic Theology
RELI 7365–7379 Religious Ethics
RELI 7380–7389 Old Testament
RELI 7390–7399 New Testament
Perkins School of Theology Courses (See course descriptions in the Perkins School of Theology catalog.)

- **BB 8345** Scripture and Christian Ethics
- **GR 7301** Greek Exegesis
- **HB 7302** Hebrew Exegesis
- **HR 8331** Women in World Religions
- **HR 8341** The Christian-Buddhist Dialogue
- **HR 8357** Monotheistic Mysticism
- **HR 8360** Eastern Spiritualities and Christian Mysticism
- **HX 7312** Early Christian Art
- **HX 7314** The Reformation
- **HX 7316** History of American Christianity
- **HX 7322** Christianity in the Hispanic Tradition
- **HX 7324** Christianity in Latin America
- **HX 7335** Wesley and the 18th Century
- **HX 8308** Varieties of Medieval Theology
- **HX 8321, 8322** History of Christian Doctrine
- **HX 8325** The Ecumenical Movement
- **HX 8331** Augustine’s City of God
- **HX 8342** Studies in Luther
- **HX 8354** African-American Christianity in the United States
- **HX 8358** A History of Hispanic Protestantism
- **HX 8360** Studies in Wesley
- **HX 8367** Studies in World Methodism
- **HX 8387** Readings in Spanish Mysticism
- **MT 8305** Historical Studies in Christian Ethics
- **MT 8345** African-American Liberation Theology
- **MT 8352** Contemporary Moral Issues
- **MT 8354** Studies in Theological Ethics
- **MT 8383** Process Theology and Social Ethics
- **MT 8385** Martin and Malcolm and Theological Ethics
- **MT 8362** Ethics, Theology and Metaphysics of Morals
- **MT 8375** The Poor in John Wesley’s Ethics
- **MT 8377** Studies in Reinhold Niebuhr
- **NT 8336** The Book of Revelation Through History and Cultures
- **NT 8365** Evil, Suffering and Death in the New Testament
- **NT 8379** Issues in Pauline Theology
- **OT 8325** The Message of the Prophets
- **OT 8345** Contemporary Approaches to the Hebrew Bible
- **OT 8351** Major Motifs of Biblical Theology
- **ST 8311** Contemporary Theology
- **ST 8318** The Person and Work of Jesus Christ
- **ST 8325** The Authority of the Bible for Theology
- **ST 8327** North American Hispanic Theology
- **ST 8345** Theologies of Hope and Liberation
- **ST 8359** God and Creation
- **TC 8308** Contemporary Issues in Philosophy of Religion
- **TC 8316** Christian Ethics, War and Peace
- **TC 8318** Christian Ethics and Social Justice
- **TC 8325** Bioethics
- **TC 8340** The Christian, the Church and the Public Good
- **WX 8322** Christianity in Asia
- **WX 8328** Theological Issues in World Christianity
STATISTICAL SCIENCE

Professor Wayne A. Woodward, Department Chair


The Department of Statistical Science offers M.S. and Ph.D. degrees in statistical science. These programs integrate both theory and practice by providing a strong theoretical foundation through courses in mathematical statistics, probability and stochastic processes and by covering the intricacies of the practice of statistics through courses with an applied orientation, as well as hands-on experience in statistical consulting.

Admission Requirements

Minimum requirements for admission to the graduate program in statistical science: Applicants must hold a Bachelor’s degree with mathematics through advanced calculus and linear algebra.

Degree of Master of Science

Degree Requirements

To qualify for the M.S. degree, the student must successfully complete at least 36 hours of coursework acceptable to the departmental faculty, including STAT 6304, 6327, 6328, 6336 and 6337, 6345 and 6366; must pass a written examination (called the basic examination) on the required coursework; and must prepare an acceptable report and orally present the results of the analysis and interpretation of a data set provided by an examination committee.

Degree of Doctor of Philosophy

Advancement to Candidacy

To qualify for the Ph.D. degree in statistics, the student must: 1) satisfy all curricular requirements as specified by the departmental faculty (at least 36 hours), including the courses listed for the M.S. as well as STAT 6371 and 7327; 2) pass the basic exam, typically at the end of the first year; 3) pass a written exam (called the comprehensive exam) to assess the student’s readiness for research, typically at the end of the second year; 4) complete a minimum of three years of graduate academic work, at least one of which is in full-time residence on the campus of SMU or at a research facility approved by the departmental faculty and the dean of Research and Graduate Studies; and 5) write and successfully defend the dissertation. See the Degree Requirements section of this catalog for general requirements for the Ph.D. degree.

A student will advance to candidacy after he or she passes the basic and comprehensive exams, prepares a written prospectus and gives an oral presentation in a research area on which the dissertation will be based, and receives approval of the prospectus from his or her dissertation committee.
The Courses (STAT)

5340 (CSE 5370). Probability and Statistics for Scientists and Engineers. Introduction to fundamentals of probability and distribution theory and statistical techniques used by engineers and physical scientists. Examples of tests of significance, operating characteristic curve, tests of hypothesis about one and two parameters, estimation, analysis of variance and the choice of a particular experimental procedure, and sample size. Prerequisites: MATH 1337, 1338 and 2339 or equivalent.

5344. Statistical Quality Control. An introduction to statistics and simple probability in terms of problems that arise in manufacturing and their application to control of manufacturing processes. Acceptance sampling in terms of standard sampling plans, including MilStd 105, MilStd 414, Dodge-Romig plans and continuous sampling plans. Prerequisite: Any one of STAT 4340, 5340, CSE 4340 or 5370.

5371. Experimental Statistics I. Noncalculus review of fundamental statistical procedures, including tests of hypotheses, interval estimation and nonparametric tests. Analysis of variance, one-way and two-way factorial designs, repeated measures, and simple linear regression. Prerequisite: Junior standing or permission of the instructor.

5372. Experimental Statistics II. Noncalculus treatment of multiple linear regression and modern multivariate techniques such as multivariate analysis of variance, classification and clustering. Prerequisite: STAT 5371.

5377 (CSE 5377). Statistical Design and Analysis of Experiments. An introduction to statistical principles in the design and analysis of industrial experiments. Completely randomized, randomized complete, 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: Senior standing with a science or engineering major or permission of the instructor.

5385. Introductory Nonparametric Statistics. Introduction to nonparametric statistics with examples in the behavioral sciences, including choice and use of rank tests, runs test and rank order correlation. Tests for one-sample and two-sample cases. Prerequisite: STAT 5371, 5340/CSE 5370 or equivalent.

6304. Computational Statistics. Introduction to the fundamentals of statistical computing widely used by both theoretical and applied statisticians in both academics and industry. Divides subject matter into two areas: simulation experiments and statistical software. Includes generating random deviates from various distributions, analyzing statistical algorithms, exploring UNIX, working with S-Plus for data analysis and graphics, interfacing S-Plus to code written in C and/or FORTRAN, and managing and manipulating very large data sets. Prerequisite: STAT 6327 or concurrent enrollment in this course.


6336. Statistical Analysis. Analysis of data from one and two samples with independent errors. Discussion of paired sample analyses, goodness of fit and categorical data analysis topics.

6337. Statistical Analysis. Emphasis on application of statistical principles in the design of experiments. Complete and fractional factorials, blocking, nesting, replication and randomization. Analysis of data from classical multifactor experimental designs with fixed and random effects. Multiple comparisons and contrasts of main effects and interactions. Prerequisite: STAT 6336.

6342. Advanced Statistical Quality Control. Investigation of statistical methods and management principles useful for understanding and improving measurable performance in human endeavors. Development of a “statistical thinking” foundation through the evaluation of
case studies and class labs. Prerequisite: STAT 4340/CSE 4340 or STAT 5340/CSE 5370 or STAT 5371. Or, corequisite: STAT 6327 or 6336.

**6345. Linear Regression.** The classical tools of linear regression based upon least squares estimation and inference through the assumption of normally distributed errors. Topics in model formulation, data transformations, variable selection and regression diagnostics for influential observations. Collinear predictors and biased estimation. Survey of alternatives to least squares. Prerequisite: STAT 6337.

**6346. Advanced Regression Analysis.** Nonlinear least-squares estimation. Theory and applications of generalized linear models. Estimation, asymptotic distribution theory and tests for model parameters. Topics in spatial statistical modeling, including variogram estimation and kriging. Prerequisite: STAT 6345 or permission of the instructor.

**6350. Analysis of Lifetime Data.** Statistically based methods for analysis of life testing and failure data from complete and censored samples. Includes topics such as statistical lifetime distributions; types of censoring, probability and other graphical techniques; nonparametric and parametric estimation methods; and lifetime data regression. Prerequisites: STAT 6304, 6327, 6328, 6336, 6337 or equivalent.


**6358. Topics in Biostatistics.** Introduction to statistical methods in genetics and molecular biology. The course teaches basic technology and statistical methods necessary to analyze high-throughput biological assays. Methods include such topics as sequence alignment, linkage analysis, microarray analysis, Markov models, and multiple comparison techniques. Prerequisite: STAT 6328 or permission of the instructor.


**6366. Statistical Consulting.** Apprenticeship under an experienced consultant, with exposure to real problems. In addition to a variety of technical statistical issues, studies the existing literature on the nonstatistical aspects of the consulting endeavor including ethics and communication.

**6370 (CSE 6370). Stochastic Models.** Model building with stochastic processes in applied sciences. Formulates phenomena with uncertain outcomes as stochastic models and analyzes their properties. Discusses some specific problems from areas such as population growth, queuing, reliability, time series, and social and behavioral processes. Emphasizes statistical properties of the models. Prerequisites: STAT 5340/CSE 5370 and graduate standing. 6371. Probability Theory. An introduction to measure theoretic probability. Random variables, expectation, conditional expectation and characteristic functions. Prerequisite: STAT 6327 or permission of the instructor.

**6372 (CSE 6372). Queueing Theory.** Queueing theory as the theoretical basis for the analysis of stochastic service systems. Explores the underlying stochastic processes as the point processes of which Markov and renewal processes are two major examples. A course that emphasizes the formulation of queueing models and their behavioral and statistical analyses using Markov and renewal techniques. Prerequisite: An introductory course in stochastic processes (such as STAT 6370/CSE 6370, STAT 6376, 6379 or EE 5306).

**6375. Sequential Analysis.** Focuses on statistical inference when sample size is not predetermined. Stopping rules, sequential probability ratio tests, composite hypotheses, Bayes rules and sequential estimation. Prerequisite: STAT 6328.

**6376. Stochastic Processes.** Random walk, Markov processes, Poisson processes, waiting times, spectral density functions and applications to random noise problems. Prerequisite: STAT 6327.

**6377. Multivariate Categorical Data Analysis.** Structural models for counting data. Introduces the general log-linear model for contingency tables along with likelihood-ratio tests,
hierarchical models and partitioning of likelihood-ratio statistics. Prerequisites: STAT 6328, 6337 or permission of the instructor.

6378. Multivariate Analysis. Theory and inference in the multivariate normal distribution. Regression, correlation, Wishart distribution, Hotelling’s T2, MANOVA and discriminant analysis. Prerequisite: STAT 6320 and 6328 or 6381.


6380. Mathematical Theory of Sampling. Theorems concerning simple random sampling, stratified random sampling, cluster sampling, unequal probability sampling, ratio estimates, regression estimates, etc. Prerequisite: STAT 6328.


6382. Theory of Linear Models II. Variance component models, mixed models, intrablock analysis, incomplete block designs and factorials, and fractional replicates. Prerequisite: STAT 6381.

6385. Survey of Nonparametric Statistics. Robust and distribution-free techniques, order statistics, EDF statistics, quantiles, asymptotic distributions and tolerance intervals. Linear rank statistics for one, two and several sample problems involving location and scale. Runs, multiple comparison, rank correlation and asymptotic relative efficiency. Prerequisite: STAT 6328.


6388. Large Sample Theory. Limit theorems useful in mathematical statistics. The foundation of asymptotic theory in statistics including modes of convergence, laws of large numbers and the central limit theorem. Systematic coverage of useful representations of certain basic statistics and large sample optimality of maximum likelihood procedures. Prerequisites: STAT 6328, 6371.


6395. Special Topics in Statistics.

6398, 6399. Thesis.

7011. Supervised Internship. Supervised experience in statistical consulting, carried out as an internship in approved work settings outside the Center for Statistical Consulting and Research. Prerequisite: STAT 6304, 6327, 6328, 6336, 6337 or equivalent.

7100, 7300. Seminar.

7110, 7111, 7112. Seminar in Statistical Literature. Reports from papers in statistical journals, bibliographical problems, etc.

7327. Advanced Statistical Inference. Topics in statistical inference, estimation (point and interval estimates, Bayesian and likelihood), tests of hypotheses (invariant, unbiased, most powerful, conditional and Bayesian) and large-sample theory for multiparameter problems. Prerequisite: STAT 6371.

7362. Advanced Special Topics.

7363. Time Series Analysis II. Intended for advanced graduate students who want to do research in time series analysis or who have a major interest in time series. Prerequisite: One term of time series (STAT 6363) or permission of the instructor.

8313. Research in Statistical Inference.

8196, 8396. Dissertation.

8197, 8397, 8697. Dissertation.

8198, 8398, 8698. Dissertation.

8199, 8399, 8699. Dissertation.
WOMEN’S AND GENDER STUDIES PROGRAM

Associate Professor Beth Newman, Director

Graduate Certificate in Women’s and Gender Studies

The graduate certificate offered by the Women’s and Gender Studies Program is designed to integrate knowledge about women, gender and sexuality into the chosen field of study of SMU graduate students. Offered through the Women’s and Gender Studies Program and jointly based in the Dedman College Graduate Program and the Perkins School of Theology, the certificate provides an additional credential for interested students who are seeking employment in fields where familiarity with scholarship on women, gender and/or sexuality may be an asset, or who are looking to enhance their graduate studies. The courses represent several disciplines, including anthropology, art history, history, literary studies, media studies and theology.

Admission Requirements

The student must be pursuing an advanced degree in an SMU graduate program, and must enroll for the program through Dedman College (for Dedman and Meadows students) and/or Perkins School of Theology (for theology students). An additional application fee is not required. Formal enrollment must include a proposed program plan for completion of the certificate developed with an adviser from the Office of the Women’s and Gender Studies Program or a Perkins adviser.

Academic Requirements (15 credit hours)

1. **The advanced feminist theory course (WGST 6300/TC 8375)**. The course includes “classic” literature from feminist, womanist and mujerista perspectives and addresses current theoretical issues across several disciplines. It is team-taught by faculty associated with Dedman College and the Perkins School of Theology.

2. **Four additional courses relevant to the intent of the certificate**. They may be chosen from the list of courses preapproved by the Women’s and Gender Studies Program (see list below). Students are permitted to take six hours of upper-level Dedman or Meadows undergraduate women’s and gender studies courses under the following circumstances:
   - The students arrange a separate syllabus and assignments in conjunction with the professor of record.
   - The syllabus and assignments must be approved by the Graduate Certificate Committee of the Women’s and Gender Studies Program.
   - The students register for such courses using the appropriate graduate-level number (WGST 5310 for 3000-level courses and 6310 for 4000-level courses). WGST 5310 can be taken only once.

   **Note**: Students are encouraged to petition the director of the Women’s and Gender Studies Program for credit in their own departments for graduate courses, including independent studies courses, in which they engage in study appropriate to the intent of the certificate. Appropriate courses taken during matriculation at SMU, but prior to enrollment in the certificate program, may count toward program hours.
3. A major research project or a supervised internship in a setting that addresses issues relevant to the intent of the program. This project should be included in the program plan (see Admission Requirements). For Ph.D. students, the project normally involves an article-length research paper written for coursework; however, if relevant it could include a performance, internship, exhibit or other project approved by the appropriate adviser. Supervised internship settings for Perkins Master of Divinity students will require a learning goal for women’s studies and shall be done in consultation with the Perkins Internship Office.

**Appropriate Courses From Dedman College and Meadows School of the Arts**

*Note:* Courses at the 4000 level or below must be taken with the numbers WGST 5310 and 6310, and in accordance with the academic requirements stated above.

- **ANTH 3310** Gender and Sex Roles
- **ANTH 3328** Gender Violence: What Does Culture Have to Do With It?
- **ANTH 3336** Gender and Globalization
- **ANTH 4351** Gender Embodiment
- **ANTH 6386** The Archaeology of Gender
- **ARHS 4371** Modern Mythmaking
- **ARHS 6389** Women in the Visual Arts
- **CCJN 4360** Women and Minorities in Mass Media
- **ECO 4351** Labor Economics
- **ECO 5357** Economics of Human Resources
- **ENGL 3344** Victorian Gender
- **ENGL 3364** Women and the Southwest
- **ENGL 3367** Ethical Implications of Children’s Literature
- **ENGL 3371** Joan of Arc: Her Story in History, Literature, and Film
- **ENGL 3373** Masculinities: Images and Perspectives
- **ENGL 3379** Contexts of Disability
- **ENGL 6375** Sex, Gender and Literature
- **FILM 3310** Screen Artists (when relevant)
- **FILM 3360** Gender and Representation in World Cinema
- **FILM 3395, 3398** Topics in Cinema/Television (when relevant)
- **FILM 4350** Gender Issues in Communication
- **HIST 3312** Women in American History
- **HIST 3317** Women in Latin-American Society
- **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** Joan of Arc: Her Story in History, Literature, and Film
- **HIST 3394** The Emergence of Modern Womanhood in the U.S., 1890–1930
- **HIST 3398** Women in Chinese History
- **HIST 4304** At the Crossroads: Gender and Sexuality in the Southwest
- **MDVL 3352** Gender in the Middle Ages
- **PHIL 3305** Philosophy and Gender
- **PLSC 3370** Women and Politics
- **PLSC 4339** Women and the Law
- **PSYC 3350** Psychology of Women
- **RELI 3375** Expressions of the Feminine Divine
RELI 3376 Constructions of Gender, Sexuality, and the Family in South Asian Religions  
SOCI 3351 Marriage and Family  
SOCI 3371 Sociology of Gender  
SOCI 4373 Race, Gender, and Inequality  
THEA 4383 Gender and Performance  
WGST 3310 Gender and Human Rights  
WGST 3328 Gender Violence: What Does Culture Have to Do With It?  
WGST 3370 Women in the Southwest  
WGST 3381 Modern Myth-Making  
WGST 5310, 6310 Special Topics in Women’s and Gender Studies I and II  
WGST 6300 Advanced Feminist Theory  
WL 3312 Women in Modern China  
WL 3359 Masculinities: Images and Perspectives  
WL 3363 (WGST 3347) Figuring the Feminine

Appropriate Courses From the Perkins School of Theology

CE 8338 Emancipatory Educational Ministry With Adolescent Girls: Liberating Ophelia LaTomika
HR 8337 Sex and Gender in Greek and Latin Patristic Thought
HX 8328 Women in the History of Christianity
PC 8333 Pastoral Care and Counseling of Women
PC 8335 Sexual and Domestic Violence: Theological and Pastoral Concerns
PC 8345 Justice Issues in Pastoral Care
ST 8345 Theologies of Hope and Liberation
ST 8375 Feminist, Womanist and Mujerista Theologies
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Summary of Corrections and Changes

The table below lists corrections and changes to the official *Southern Methodist University 2011–2013 Dedman College Graduate Programs Catalog* as found online at [smu.edu/catalogs](http://smu.edu/catalogs).

*Updated January 28, 2013*

**Section: Degree Requirements, Graduate Degrees**

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<tr>
<td>English Ph.D.</td>
<td>The language requirement was misidentified as “None” and was corrected to read “Proficiency in one language.”</td>
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<td>9/21/2011</td>
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<tr>
<td>Earth Sciences</td>
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<tr>
<td>Geology or Geophysics</td>
<td>The language requirement was misidentified as “Credit for intermediate courses in one language, or test approved by department” and was corrected to read “None.”</td>
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<td>1/28/2013</td>
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<td>Ph.D.</td>
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<tr>
<td>History Ph.D.</td>
<td>The language requirement was misidentified as “Test administered by the department” and was corrected to read “Credit for intermediate courses in one language, or test approved by department.”</td>
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**Section: University Life and Services – Health Services**

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<td>Immunizations</td>
<td>Replace the paragraph with the two paragraphs in the addendum.</td>
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<td>11/14/11</td>
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<tr>
<td>Note</td>
<td>Replace the paragraph with the Meningitis Vaccination paragraph in the addendum.</td>
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<td>11/14/11</td>
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Dedman College
of Humanities and Sciences

Addendum
Southern Methodist University
2011–2013
Immunizations. All students (undergraduate, graduate, part-time and full-time, to include international and IEP/ESL 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 also submit to the Health Center immunization records that provide proof of immunization against measles, mumps and rubella. These MMR immunizations must be documented by a physician, public health record, military health record or school health record. Students will not be allowed to register without immunization compliance.

Students are encouraged to check their Access.SMU account for immunization status. Immunizations are available at the Health Center. Health history forms are available on the Health Center’s website.

Meningitis Vaccination. Effective January 1, 2012, Texas state law requires that all new students under the age of 30 must provide documentation demonstrating they have been vaccinated against bacterial meningitis. The documentation must show evidence that a meningitis vaccine or booster was given during the five-year period preceding and at least 10 days prior to the first day of class of the student’s first term. Students should provide the documentation at least 10 days before the first day of class. Students seeking exemption from this requirement due to health risk or conscience, including religious belief, should see the second page of the SMU medical history health form.